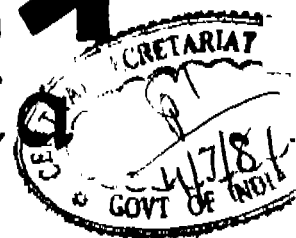




भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY



सं० १८] नई दिल्ली, शनिवार, मई २, १९८१ (वैशाख १२, १९०३)
No. 18] NEW DELHI, SATURDAY, MAY 2, 1981 (VAISAKHA 12, 1903)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड २ [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE

PATENTS AND DESIGNS

Calcutta, the 2nd May 1981

APPLICATION FOR PATENTS FILED AT THE HEAD
OFFICE, 214, ACHARYA JAGADISH BOSE ROAD,
CALCUTTA-700 017.

The dates shown in crescent brackets are the dates claimed
under Section 135 of the Act.

26th March, 1981

- 328/Cal/81. Siemens Aktiengesellschaft. Surge arrester.
- 329/Cal/81. Sandvik Aktiebolag. Drill Tool.
- 330/Cal/81. Sealed Power Corporation. Piston ring. (December 4, 1980).
- 331/Cal/81. Shell Internationale Research Maatschappij B.V. A process for the preparaton of hydrocarbons.
- 332/Cal/81. Stamicarbon B.V. Production of polyamide-based objects.
- 333/Cal/81. Stamicarbon B.V. Preparation of polytetramethylene adipamide.
- 334/Cal/81. Stamicarbon B.V. Preparation of high molecular polytetramethylene adipamide.
- 335/Cal/81. Italtel Socleta Italiana Telecomunicazioni s.p.a. High-speed common transmission line for telecommunication or data processing systems.

1—47GI/81

27th March, 1981

- 336/Cal/81. B. Sinha. Device for indicating air pressure in vehicle tires. (March 27, 1980).
- 337/Cal/81. Udaras Na Gaeltachta. Apparatus for the inspection of translucent containers. (March 28, 1980); (August 6, 1980), (November 4, 1980).
- 338/Cal/81. Redifon Telecommunications Limited and Thames Television Limited. Battery charger. (March 28, 1980).
- 339/Cal/81. Proizvodstvennoe Geologicheskoe Obiedinenie Tsentralnykh Ralonov "Tsentrgeologia" and Proizvodstvennoe Geologicheskoe Obiedinenie Severo-Zapadnykh Ralonov "Sevzapgeologia". Arrangement for feeding packing and grouting materials to and their processing within a pre-set interval of a well.
- 340/Cal/81. General Electric Company. Edge coated capacitor electrode.

28th March, 1981

- 341/Cal/81. Barr & Stroud Limited. Collimation lens system. (April 26, 1980).
- 342/Cal/81. Selko Giken Kabushiki Kaisha. Vibration damper.
- 343/Cal/81. Maschinenfabrik Rieter A.G. Method of levelling out variations of a fibre silver and apparatus for implementing the method.
- 344/Cal/81. Maschinenfabrik Rieter A.G. Construction of thread treating nozzles.

(217)

- 345/Cal/81. Combustion Engineering, Inc. Control for-high temperature electric refractory furnace.
- 346/Cal/81. Italtel Societa Italiana Telecomunicazioni s.p.a. Double-face printed-circuit board.
- 30th March, 1981
- 347/Cal/81. Dr. D. K. Roy and U. Saha. Process for producing 2 : 4-dichlorophenoxyethyl penicillin.
- 348/Cal/81. V. V. Barchha. Multiwick stoves (EF).
- 349/Cal/81. V. V. Barchha. Multiwick stoves.
- 350/Cal/81. Merlin Gerin. Improved solid state trip unit for an electrical circuit breaker.
- 351/Cal/81. The Pittsburg & Midway Coal Mining Company. Process for blending coal with water immiscible liquid.
- 352/Cal/81. The Pittsburg & Midway Coal Mining Company. Apparatus and method for pumping hot, erosive slurry of coal solids in coal derived, water immiscible liquid.
- 353/Cal/81. Tzeng, Huang-Jang and Chon, Tzu-Wen. Electronic device for arc welding equipment.
- 354/Cal/81. Stamicarbon B.V. Process for the spraying of a liquid by means of a gas.

31st March, 1981

- 355/Cal/81. Stauffer Chemical Company. Herbicide compositions of extended soil life.
- 356/Cal/81. Acrow Limited. Improvements in and relating to scaffolding.
- 357/Cal/81. Hercofina and American Petrofina, Incorporated. High efficiency extraction method for recovering oxidation catalyst material from dimethyl terephthalate esterified oxidate residue and the like.
- 358/Cal/81. Institute Po Obleklo I Textil. Method and apparatus for the production of raised yarn, and a yarn produced by this method.
- 359/Cal/81. Siemens Aktiengesellschaft. A control arrangement with and for a switching transistor.

1st April, 1981

- 360/Cal/81. Outokumpu OY. Copper wire for intrauterine birth control devices and a method for manufacturing the same.
- 361/Cal/81. Shell Internationale Research Maatschappij B.V. A process for the preparation of middle distillates.
- 362/Cal/81. Interlox Chemicals Limited. Liquid detergent compositions. (April 1, 1980).
- 363/Cal/81. Voest-Alpine Aktiengesellschaft. System for monitoring the movement of a cutting tool of a tunnel-driving machine relative to a desired profile.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD.

MADRAS-600002

23rd March, 1981

- 58/Mas/81. Mrs. S. Chitralekha, S. Santhosham & Mrs. Z. Bai. Water level indicator.

26th March, 1981

- 59/Mas/81. M. P. Traders and Manufacturers. A device.
- 60/Mas/81. M. P. Traders and Manufacturers. A device.

27th March, 1981

- 61/Mas/81. N. Nagarajan. One four wheel cycle with a new principle.

28th March, 1981

- 62/Mas/81. Indian Institute of Technology. Gears.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 29A & 186B₁ & 206D.

148648.

Int. Cl.-H03k 3/00, H04b 1/00, G06f 1/00.

ARRANGEMENT FOR BRANCHING, TO OUTGOING INFORMATION FLOW BRANCHES, AN INCOMING INFORMATION FLOW.

Applicant: TELEFONAKTIEBOLAGET L M ERISSON, S-126 25 STOCKHOLM, SWEDEN.

Inventors: OLEG AVSAN AND NILS KARL ISAKSSON.

Application No. 249/Del/78 filed April 5, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

5 Claims.

Arrangement for branching, to outgoing information flow branches, an incoming information flow comprising digital words which are used in controlling a stored program controlled telecommunication system, which words are divided into groups of bits and generated by means of a first information flow generator at a rate which is obtained by means of clock pulses transmitted from a clock pulse source, which information flow is transferred between memory means the activation inputs of which are controlled by the clock pulses, successively arranged memory means in the transfer direction being activated simultaneously to receive successive information included in respective flow, characterized in a second information flow generator (IFG2) controlled by the clock pulse source (CL) to generate digital branching information (b1-Bi3) which for each digital word and bit group (b-8, b9-12) determines into which of said information flow branches (B1-B4) said word and bit group is to be branched, and in that said memory means comprise word registered respective bit group registers (BR1-BR4) the information inputs of which are connected to the first information flow generator (IFG1) and the information outputs of which each forms the point where a flow branch originates, the word respective the bit group registers into which only a part of the incoming information flow is branched having their activation inputs (A) connected to a locking device (AND1-AND3) each in order to lock said timing pulses in dependence of the branching information belonging to respective flow branch.

Comp. Specn. 17 Pages. Drg. 3 Sheets.

CLASS 76H.

148649.

Int. Cl.-E05c 13/02.

FUSIBLE COMPOSITE BINDING STRAP.

Applicant : SIGNODE CORPORATION, OF 3600 WEST LAKE AVENUE, GLENVIEW, ILLINOIS 60025, UNITED STATES OF AMERICA.

Inventors : RUSSELL JOHN GOULD.

Application No. 259/Del/78 filed April 10, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Delhi Branch.

35 Claims.

A sheetform, crystalline thermoplastic polymer article of substantially uniform cross-section and having improved heat-weldability comprising a laminar composite in which a major thickness portion is constituted by said polymer having a predetermined average molecular weight and a minor thickness portion is constituted by the same polymer have a relatively higher average molecular weight than the polymer in said major thickness portion; said minor thickness portion being unitary with said major portion and defining a heat-weldable face of said article, and said thickness portions having substantially similar planar crystalline orientation.

Comp. Specn. 21 Pages.

Drg. 1 Sheet.

CLASS 32E.

148650.

Int. Cl.-C08g 22/04, 51/26.

METHOD FOR THE PREPARATION OF FLAME RETARDANT POLYURETHANE ELASTOMERS.

Applicant : UNIROYAL, INC. AT 1230 AVENUE OF THE AMERICAS, NEW YORK, NEW YORK 10020, UNITED STATES OF AMERICA.

Inventors : CHUNG LING MAO AND WALTER NUDENBERG.

Application No. 301/Del/78 filed April 25, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Delhi Branch.

11 Claims.

A method for the preparation of flame-retardant polyurethane elastomers which are both self-extinguishing and non-drip at combustion conditions which comprises : incorporating with a chain-extendible cross-linkable polyurethane prepolymer :—(a) from 10 to 50 parts by weight per 100 parts by weight of the prepolymer of at least one non-volatile, stable halogen-substituted hydrocarbyl compound such as herein described which is non-reactive to the prepolymer, (b) from 1 to 10 parts by weight per 100 parts by weight of the prepolymer of a synergist selected from (i) an organic or inorganic compound of a metal selected from the group consisting of antimony, arsenic and bismuth, (ii) salts of said metals with the alkali metals of Group I of the Periodic Table (iii) salts of said metals with organic acids and their pentavalent derivatives of (iv) esters of such acids and their pentavalent derivatives, and (c) from 3 to 40 parts by weight per 100 parts by weight of the prepolymer of a hexaalkoxymethylmelamine of the general formula of the accompanying drawings wherein R is a C₁ to C₆ straight or branched chain alkyl group, blending into the mixture so formed an organic polyisocyanate, and curing the blended mixture at a temperature of from 250° to 350°F to produce the cross-linked polyurethane elastomer.

Comp. Specn. 23 Pages.

Drg. 1 Sheet.

CLASS 32E.

148651.

Int. Cl.-C08g 22/04, 51/26.

FLAME RETARDANT POLYURETHANE ELASTOPLASTIC COMPOSITIONS AND A METHOD FOR THE PREPARATION THEREOF.

Applicant : UNIROYAL, INC., AT 1230 AVENUE OF THE AMERICAS, NEW YORK, NEW YORK 10020, UNITED STATES OF AMERICA.

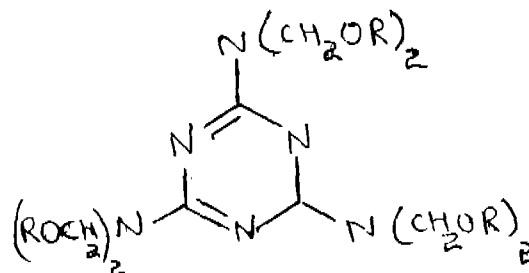
Inventors : DEMETREOS NESTOR MATHEWS AND WALTER NUDENBERG.

Application No. 302/Del/78 filed April 25, 1978.

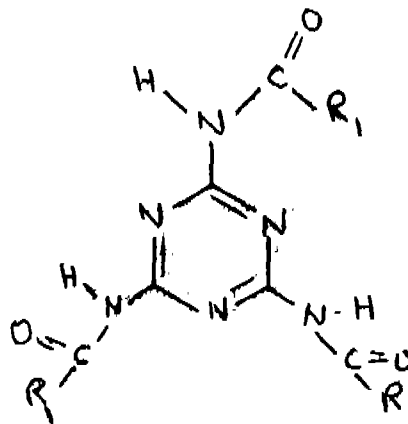
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Delhi Branch.

16 Claims.

A flame-retardant polyurethane elastoplastic composition which is non-drip at combustion conditions which comprises a polyurethane elastomer in combination with less than 50% by weight of a hexaalkoxymethylmelamine having the general formula I.



wherein R is a C₁ to C₆ alkyl group and one or more synergists selected from the group consisting of (1) a trihydrocarboylcarbonylamine having the general formula II.



wherein R¹ to C⁶ alkyl, phenyl, tolyl, dimethylphenyl or cyanomethyl, (2) an aromatic bismaleimide and (3) an aromatic bismaleimide generator such as herein defined.

Comp. Specn. 19 Pages.

Drg. 1 Sheet.

CLASS 24C

148652.

Int. Cl.-B61k 7/00.

ELECTRICAL BINARY CODE PRODUCING APPARATUS.

Applicant : WESTINGHOUSE BRAKE AND SIGNAL COMPANY LIMITED, OF 3, JOHN STREET, LONDON WC1N 2ES ENGLAND.

Inventor : IVOR HENRY BULL.

Application No. 312/Del/78 filed April 27, 1978.

Convention date May 3, 1977/(18397/77) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

4 Claims.

An electrical binary code producing apparatus including a mechanically movable member movable through a range of positions corresponding to desired electrical binary output codes, a plurality of switch devices, respective toggle mechanisms operable by the movable member for setting the switch devices to provide a change of stage thereof in a step-by-step manner through a succession of states the difference between

any one said state and the next being constituted by a change of state of only one of said switch devices, each said switch device set by a said toggle mechanism having a first pair of open fixed contacts and a second pair of bridged fixed contacts, a pair of mutually insulated movable bridge pieces for respectively bridging the first or second pairs of contacts, said bridge pieces being movable by the respective said toggle to open the second pair of contacts and bridge the first pair of contacts, a single contact only of each pair of contacts being electrically connected to be common, a plurality of output conductors, a supply conductor and means connecting said switch devices in the apparatus to selectively provide electrical circuit paths from said supply conductor to said plurality of output conductors in accordance with a binary coded representation of the position of the movable member.

Comp. Specn. 21 Pages. Drg. 2 Sheets.

CLASS 32E & 152E.

148653.

Int. Cl.-C09j 3/14.

PROCESS OF MAKING AN ADHESIVE.

Applicant : THE GOODYEAR TIRE & RUBBER COMPANY, AT 1144 EAST MARKET STREET, AKRON, OHIO, UNITED STATES OF AMERICA.

Inventors : ROOP SINGH BHAKUNI AND RICHARD FRANK LASKE.

Application No. 328/Del/78 filed May 4, 1978.

Convention date February 23, 1978/(297628/78) CANADA.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

5 Claims.—No drawings.

A process for making an adhesive which comprises the steps of forming a solution in water of resorcinol, an aldehyde of the kind such as herein described and a base, adding to said solution a water-soluble resin comprising the condensation reaction product of catechol, an aldehyde of the kind such as herein described and a base wherein the mole ratio of catechol to aldehyde is in the range of from 1 : 3 to 1.4 : 1 mixing into the solution thus formed a latex selected from at least one of styrene/1, 3-butadiene/vinylpyridine terpolymer and butadiene styrene copolymer and aging the mixture so produced.

Comp. Specn. 12 Pages. Drgs. Nil.

CLASS 33A.

148654.

Int. Cl.-B22b 13/02, 15/10.

CENTRIFUGAL CASTING APPARATUS.

Applicant : NOBLE CORPORATION, OF P.O. BOX 2305, ANNISTON, ALABAMA, U.S.A.

Inventor : CHARLES H. NOBLE.

Application No. 340/Del/78 filed May 8, 1978.

Convention date March 9, 1978/(9385/78) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

10 Claims.

Apparatus for producing tubular metal articles by centrifugal casting characterized by comprising, in combination, a mold supporting and rotating apparatus for supporting and rotating a centrifugal casting mold having an active mold surface which is of circular cross section transverse to the axis of mold rotation; an elongated rigid structure dimensioned to be inserted axially into and withdrawn from a mold supported by the supporting and rotating apparatus and comprising a trough dimensioned to contain a quantity of free flowing particulate refractory material in excess of that required to line the mold, two trunnions each located at and secured to a different end

portion of the trough, said trunnions being coaxial and projecting axially from the respective ends of the trough to define an axis of rotation for said elongated rigid structure, and an elongated rigid contouring blade extending lengthwise of the trough and having a profile identical to that desired for the article to be cast; a movable first support device located adjacent one end of the mold when a mold is supported by the supporting and rotating apparatus, said first support device being constructed and arranged for movement toward and away from the supporting and rotating apparatus, one of the trunnions of the elongated rigid structure being journaled on the first movable support device in a position such that the structure is aligned generally coaxially with the mold when a mold is supported by the supporting and rotating apparatus; and second support device located in a position adjacent the other end of the mold when a mold is supported by the supporting and rotating apparatus, the second support device being arranged to receive and operatively support the end of the rigid structure having the other trunnion when the first support device is moved to insert the rigid structure through a mold supported by the supporting and rotating apparatus; said first and second support devices being arranged to support the elongated rigid structure in a position such that the axis of rotation defined by the trunnions is displaced laterally from the axis of rotation of the mold supported by the supporting and rotating apparatus when a mold of predetermined inner diameter is supported by the apparatus; the trough being capable of occupying a first position in which the mouth of the trough opens upwardly and the refractory material is retained in the trough and a second position in which the mouth of the trough opens downwardly and the refractory material is discharged from the trough into the mold for centrifugal distribution into a layer covering the active surface of the mold; the contouring blade projecting laterally from the trough to such an extent that, as the elongated rigid structure is rotated about the axis defined by the trunnions the contouring blade reaches a position of closest proximity to the active surface of the mold the contouring blade, when disposed in said position of closest proximity after the particulate refractory material has been discharged from the mold and while the mold is rotating operating to contour the layer of refractory material to the precise shape and dimensions desired for the article to be cast.

Comp. Specn. 41 Pages. Drg. 3 Sheets.

CLASS 33A.

148655.

Int. Cl.-B22d 13/02, 13/10.

METHOD FOR CENTRIFUGAL CASTING.

Applicant : NOBLE CORPORATION, P.O. BOX 2305, ANNISTON, ALABAMA, U.S.A.

Inventor : CHARLES H. BOBLE.

Application No. 343/Del/78 filed May 8, 1978.

Convention date March 9, 1978/(9384/78) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

16 Claims.

An improved centrifugal casting method of the type in which the annular mold surface of a hollow metal rotary mold is lined with refractory material and the molten metal then cast centrifugally on the refractory lining, the improved method making it unnecessary to vent the metal mold, characterized by introducing into the mold a quantity of a dry finely particulate free flowing refractory material which is inert at the temperature of the molten metal to be cast, has a melting point significantly higher than the temperature of the molten metal, a specific gravity of at least 2.25, and a particle size such that at least 95% of the particles have a maximum dimension not exceeding 105 microns; rotating the mold to distribute said quantity of refractory material centrifugally and thereby establish over the entire active surface of the mold a layer which is thicker than that desired for casting the article; densifying the layer of refractory particulate material by rotating the mold at a rate such that the particulate refractory material is subjected to centrifugal force adequate to establish an equivalent specific gravity, determined by multiplying the actual specific gravity, determined by multiplying

the actual specific gravity, determined by multiplying the actual specific gravity of the refractory material by the number of gravities of centrifugal force, of at least 7.5; contouring the inner surface of the refractory layer to the form desired for the article to be cast by positioning against the inner portion of the layer, while continuing to rotate the mold a contouring tool having a working edge which extends longitudinally of the mold and which has a longitudinal profile identical with that desired for the article to be cast, the quantity of refractory material and the position of the contouring tool relative to the active mold surface being such that, after contouring, the thinnest portion of said layer will have a thickness equal to at least 5 times the maximum dimension of the particles of the predominant fraction of the particulate material and significantly greater than the largest particle of the particulate material; rotating the mold at a casting rate such as to apply to the densified and contoured layer a centrifugal force of at least 10 gravities; and introducing molten metal for casting while continuing to rotate the mold at said casting rate, rotation of the mold being continued at said casting rate at least until the molten metal has covered the inner surface of the densified and contoured layer of refractory material.

Comp. Specn. 41 Pages. Drg. 3 Sheets.

CLASS 107G.

148656.

Int. Cl.-F16k 27/00.

IMPROVEMENTS IN OR RELATING TO A MUSHROOM VALVE HOUSING WITH FLUID COOLANT CIRCULATION FOR INTERNAL COMBUSTION ENGINES.

Applicant : SOCIÉTÉ D'ÉTUDES DE MACHINES THERMIQUES, S.E.M.T., OF 2, QUAI DE SEIN 93202, SAINT DENIS, FRANCE.

Inventors : JAN-PIERRE POLLET.

Application No. 388/Del/78 filed May 23, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

8 Claims.

A mushroom valve housing with fluid coolant circulation for internal combustion engines, of the type comprising a cage and at least two pairs of legs or webs supporting at their end an annular valve seat containing an annular space for the said fluid coolant, and a valve guide incorporating an annular cavity for the said fluid coolant, separated by a longitudinal partition into at least two sections, namely a fluid coolant intake section and a fluid coolant return section, a fluid coolant passage leading to the said annular cavity and to the said annular space, respectively, being cut longitudinally in each of the said legs, the fluid coolant passages of two successive legs located on one and the same side with respect to the said partition opening into the bottom region of a same section, characterized in that the said two fluid coolant passages connected to a same section open freely into that section whereas the other of the said two fluid coolant passages communicates directly with the other section, and the respective fluid coolant passages of two diametrically opposite legs communicate with a same section.

Comp. Specn. 11 Pages. Drg. 1 Sheet.

CLASS 39G & N.

148657.

Int. Cl.-C01d 3/00.

PROCESS FOR THE PRODUCTION OF POTASSIUM CARNALLITE ($KCl \cdot MgCl_2 \cdot 6H_2O$); 99% PURE.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

Inventors : SATCHIDANANDA MAHAPATRA, SURENDRA NATH DAS AND PRABHAT KUMAR PALIT.

Application No. 398/Del/78 filed May 25, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

5 Claims.—No drawings.

Process for the production of potassium carnallite ($KCl \cdot MgCl_2 \cdot 6H_2O$) 99% pure comprises reacting the by product mixed acid, obtained by the process of Indian Patent No. 145213 for the preparation of pure potassium nitrate, with low grade magnesite rocks, concentrating the resultant neutral liquor, separating the potassium carnallite formed by cooling

the same to room temperature, washing and drying the same.
Comp. Specn. 6 Pages. Drgs. Nil.

CLASS 39-I.

148658.

Int. Cl.-C01d 9/04.

PROCESS FOR THE RECOVERY OF NITRATE VALUES OF THE MOTHER-LIQUOR OBTAINED AFTER THE SEPARATION OF POTASSIUM CARNALLITE AS POTASSIUM NITRATE.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

Inventors : SATCHIDANANDA MAHAPATRA, SURENDRA NATH DAS AND PRABHAT KUMAR PALIT.

Application No. 399/Del/78 filed May 25, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

2 Claims.—No drawings.

A process for the recovery of nitrate values of the mother liquor obtained after separation of potassium carnallite by the process of our copending Indian Patent Application No. 398/Del/78, characterised in that the mother liquor containing the nitrate values is reacted with an aqueous saturated potassium chloride solution at room temperature, the potassium nitrate formed is separated at 0°C temperature.

Comp. Specn. 4 Pages. Drgs. Nil.

CLASS 205H.

148659.

Int. Cl.-B60c.

A RADIAL PLY PNEUMATIC TIRE.

Applicant : THE GENERAL TIRE & RUBBER COMPANY OF ONE GENERAL STREET, AKRON, OHIO, 44329, UNITED STATES OF AMERICA.

Inventor : BRUCE LEO RODENKIRCH.

Application No. 415/Del/78 filed June 5, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

4 Claims.

A radial ply pneumatic tire comprising a continuous ply from bead to bead of radial cord reinforcement having an initial modulus greater than 200 GPD/100% embedded in an elastomeric matrix, an inner liner contiguous to the ply, and a cincture belt reinforcing the tread portion of the tire, which tire additionally includes an insert sheet positioned under the radial center line of the tire, circumferentially disposed around the tire and embedded in the elastomeric matrix between the inner liner and the ply; the insert being formed of a material having a break strength reduction of not more than 35% after 10.8 megacycles using Goodrich Disk fatigue test method; the insert having an axial width less than the axial width of the cincture belt; and the material including reinforcing cords oriented in the same direction as the reinforcing cords of the ply.

Comp. Specn. 11 Pages. Drg. 1 Sheet.

CLASS 32E.

148660.

Int. Cl.-C08g 53/00.

A PROCESS FOR PREPARING CROSSLINKED SYNTHETIC POLYMERIC RESINS.

Applicant : ROHM AND HAAS COMPANY, OF INDEPENDENCE MALL WEST, PHILADELPHIA, PA-19103, UNITED STATES OF AMERICA.

Inventor : BLENN HORACE BEASLEY.

Application No. 439/Del/78 filed June 13, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

11 Claims.

A process for preparing crosslinked, synthetic polymeric resin having pendant substituted styrenyl rings with an average of 0.7 to 2.0 sulfonyl chloride substituent groups per pendant

styrenyl ring and substantially free of sulfonic acid substituent groups which comprises reacting chlorosulfonic acid with forming crosslinked synthetic polymeric anion exchange resin or a chlorinating agent such as hereindescribed and optionally forming crosslinked synthetic polymeric anion exchange resin having pendant substituted styrenyl rings with an average of 0.7 to 2.0—(SO₃R) and 0 to 0.4—(SO₃H) substituent groups per pendant styrenyl ring wherein R is a polyamine or quaternary ammonium salt, in either case containing a single primary or secondary amine group which is linked to the sulfonyl group, R containing at least one tertiary amine or quaternary ammonium functional ion exchange group, the resin being substantially free from secondary crosslinking by amidating under anhydrous conditions the crosslinked resin so produced with a polyamine containing a single reactive primary or secondary amine group and at least one functional ion exchange group, or precursor thereof selected from tertiary amine or protected amine groups, using at least one mole of polyamine per mole of sulfonyl chloride and thereafter converting any protected amine groups to tertiary amine groups and further optionally quaternizing one or more of the tertiary amine groups to ammonium groups.

Comp. Specn. 34 Pages. Drg. 4 Sheets.

CLASS 32F_b & 55D_a.

148661.

Int. Cl.-C07d 57/12.

PROCESS FOR THE PREPARATION OF NEW PYRIMIDINE DERIVATIVES.

Applicant : SOCIETE DE CONSEILS DE RECHERCHES ET APPLICATIONS SCIENTIFIQUES (SCARS) FORMERLY KNOWN AS SOCIETE CIVILE DE RECHERCHES & D'APPLICATIONS SCIENTIFIQUES (S.C.R.A.S.), OF 264, RUE DU FAUBOURG SAINT-HONORE, 75008 PARIS, (FORMERLY OF 47, RUE HENRI-HEINE 75016, PARIS), FRANCE.

Inventor : ALAIN BEGUIN.

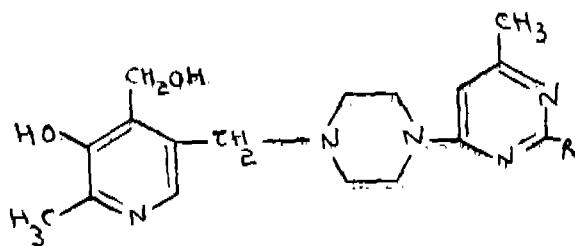
Application No. 457/Del/78 filed June 21, 1978.

Convention date July 12, 1977/(29281/77), U.K.

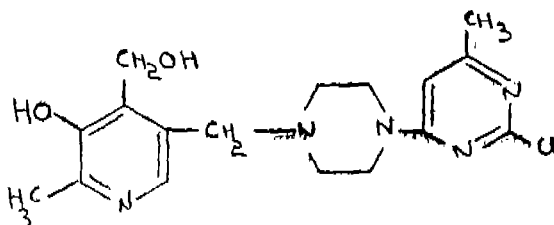
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

2 Claims.

Process for the preparation of new derivatives of pyrimidine of the general formula shown in Fig. 1.



in which R represents a piperidino radical or a 4-(2-methyl-3-hydroxy-4-hydroxy-methyl-5-pyridyl-methyl)-1-piperazinyl radical and therapeutically acceptable salts thereof consisting, in reacting in a polar solvent such as herein described, at reflux, the piperidine or the 4-2-methyl-3-hydroxy-4-hydroxy-methyl-5-pyridyl-methyl-1-piperazine on the corresponding chloride of the formula shown in Fig. 2.



wherein the -OH and -CH₂OH groups in 3 and 4 positions of the pyridoxine moiety have been previously blocked, then is heated with acid at about 70-90°C the compound thus obtained for breaking the blocking of the said -OH and -CH₂OH groups.

Comp. Specn. 8 Pages. Drg. 1 Sheet.

CLASS 72B.

148662.

Int. Cl.-C06b 19/06.

FOAMED AND THICKENED EXPLOSIVE COMPOSITIONS HAVING IMPROVED STABILITY.

Applicant : CANADIAN INDUSTRIES LIMITED, OF 630 DORCHESTER BOULEVARD WEST, MONTREAL, QUEBEC, CANADA.

Inventors : TERRENCE CHARLES MATTS AND PHILIP FAUT LIT SETO.

Application No. 458/Del/78 filed June 21, 1978.

Convention date July 5, 1977/(28111/77) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

4 Claims.

A slurry explosive composition containing water, inorganic oxidizer salt, fuel, thickener and a sensitizing amount of dispersed, fine, entrapped gas bubbles characterized in that the thickener consists essentially of from 0.2% to 2.0% by weight of the total composition of a mixture of unmodified guar gum and hydroxypropyl-modified guar gum in the ratio of from 15 to 85 parts by weight of the unmodified guar gum to 85 to 15 parts by weight of the hydroxypropyl-modified guar gum.

Comp. Specn. 28 Pages.

Drg. 1 Sheet.

CLASS 5D.

148663.

Int. Cl.-B05b 5/00.

A POWDER SPRAYER FOR SPRAYING AIR BORNE POWDER MATERIAL ON EARTHED OBJECTS.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA.

Inventors : DR. DANESH CHAND PARASHAR, NARENDRA KUMAR, VIJAY KUMAR BAHL, AND JAGDISH RAJ ANAND.

Application No. 474/Del/78 filed June 24, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

3 Claims.

A powder sprayer for spraying air borne powder material earthed objects comprising a powder tube through which air borne powder from a conventional powder sprayer is sprayed, characterised in that a charging chamber is mounted on the powder tube to electrostatically charge the powder particles to a high voltage of the order of 10 to 150Kv. d.c. on passing through the charging chamber and is attracted by earthed objects on issuing out and is deposited on desired objects.

Comp. Specn. 7 Pages.

Drg. 3 Sheets.

CLASS 140A_a.

148664.

Int. Cl.-C10m 3/00.

LUBRICATING OIL COMPOSITION AND A PROCESS FOR PREPARING THE SAME.

Applicant : EXXON RESEARCH AND ENGINEERING COMPANY, AT FLORHAM PARK, NEW JERSEY, UNITED STATES OF AMERICA, FORMERLY OF 1900 LINDEN AVENUE, LINDEN, NEW JERSEY 07036, UNITED STATES OF AMERICA.

Inventors : HAROLD SHAUB AND WALTER EDWIN WADDEY.

Application No. 475/Del/78 filed June 26, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

20 Claims.

A storage stable lubricating oil composition comprising a major portion of lubricating oil, from 0.01 to 5.0 parts by weight of zinc dihydrocarbyl dithiophosphate, from 0.01 to 1.0 parts by weight of an ester of a polycarboxylic acid with a glycol and from about 0.1 to 30 parts by weight of an ashless dispersant containing a high molecular weight aliphatic hydrocarbon oil solubilizing group such as herein described attached thereto, all weights based on 100 parts by weight of said lubricating oil.

Comp. Specn. 36 Pages.

Drg. 2 Sheets.

CLASS 32F3 (d) (1) × (1), 40B IV (1).

148665.

Int. Cl.-B01J 11/00, C07C 51/00.

"PROCESS FOR THE PREPARATION OF AN IMPROVED CATALYST FOR THE OXIDATION OF BUTANE TO MALEIC ACID".

Applicants : HALCON RESEARCH AND DEVELOPMENT CORPORATION, 2, PARK AVENUE, NEW YORK, NEW YORK 10016, U.S.A.

Inventors : JOSEPH XAVIER McDERMETT.

Application No. 509/Del/78 filed on 7th July, 1978.

Complete Specification left on 7th July, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

13 Claims.

A process for the preparation of an improved catalyst for the the oxidation of butane to maleic acid, which comprises forming a solution in an appropriate solvent of compounds of phosphorous and vanadium, evaporating the solution to dryness, activating the resulting dried solid by heating to form a substrate and depositing on the surface of the substrate so formed one or more promoters such as herein described.

Complete specification 22 pages.

CLASS 108C_a, 104D.

148666.

Int. Cl.-B29h 19/00.

"PROCESS FOR PRODUCING PIG IRON UTILIZING RUBBER MATERIALS".

Applicants & Inventors : ENDRE BREZNA Y, 1039-BUDAPEST, JUHASS GYULA u. 6-HUNGARY.

Application No. 532/Del/78 filed July 20th, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

5 Claims.

In a process for producing pig iron by heating, in a blast furnace, a charge containing iron ore, coke and a slag forming additive, to produce said pig iron and blast furnace gas, wherein the improvement comprises, adding waste rubber material to said charge prior to introduction of the charge into the blast furnace and in an amount sufficient to permit reduction of the specific amount of coke employed in said charge to produce a unit of pig iron and sufficient to increase combustion of the blast furnace gas, said waste rubber material being added in an amount less than 20% of the produced pig iron.

(Complete specification 11 pages. Drawing One sheet).

CLASS 150C.

148667.

Int. Cl.-F.16e-37/04.

"IMPROVEMENTS IN OR RELATING TO COUPLINGS FOR TUBES".

Applicants & Inventors : JOHN DEREK GUEST, "TONA", CANNON HILL WAY, BRAY, MAIDENHEAD, BERKSHIRE, ENGLAND.

Application No. 568/Del/78 filed on 02-08-1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

10 Claims.

A tube coupling of the kind having a body member with a bore containing a collet with resilient arms, which arms have radially outwardly facing surfaces, referred to hereinafter as cam surfaces, co-operating with an internal surface of said body member, and said internal surface having a portion tapering to a narrower diameter in a direction towards an open end of a bore in said body member whereby an axially outward pull on the collet forces the arms together wherein the collet arms each have a radially inwardly extending projection at a position along the length of arm intermediate the ends thereof to engage and grip a tube in the collet, the arms extending beyond the projection so that the outer end portions of the arms beyond the projection bear against a tube when the arms are forced inwardly by engagement of said co-operating surfaces.

(Complete specification 20 pages. Drawing 3 sheets).

CLASS 55F., 40I.

148668.

Int. Cl.-A61 K27/00.

"A PROCESS FOR PREPARING A TEST COMPOSITION FOR DETECTION OF KETONES."

Applicants : MILES LABORATORIES INC. AT 1127 MYRTLE STREET, ELKHART, INDIANA, UNITED STATES OF AMERICA.

Inventors : THOMAS ANTHONY MAGERS AND DAVID LEE TABB.

Application No. 573/Del/78 filed on 3rd August, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

13 Claims.

A process for preparing a test composition for detection of ketones at alkaline pH which comprises the step of combining a nitroprusside such as herein described with at least one inorganic salt of magnesium and calcium.

(Complete specification 37 pages. Drawing one sheet).

CLASS 129G.

148669.

Int. Cl.-B23K-7/06.

"PROCESS AND APPARATUS FOR THERMOCHEMICALLY SCARFING A METAL WORKPIECE".

Applicants : UNION CARBIDE CORPORATION 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK, 10017, U.S.A.

Inventors : RONALD ELMER FUHRHOP.

Application No. 631/Del/78 filed on 24th August, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

14 Claims.

A process for thermochemically scarfing a metal work-piece comprising :—

(1) preheating a spot on the surface of the workpiece where the scarfing reaction is to begin by directing a pre-heating flame spot, said spot, said preheating flame being formed by :

(a) discharging at least one stream of preheat oxidising gas and atleast one stream of preheat fuel gas from separate parts in each a manner that said streams impinge extend to their discharge ports, above the work surface and in such manner that the axes of said streams form an acute included angle between them, and

(b) stabilising said preheating flame by discharging a low intensity stream of oxidizing gas, the direction of said stabilising stream being in the same general direction as the direction of said flame or forming an angle of between 1° and 90° with the forward axis of said flame said stabilizing oxidizing stream passing proximate to or through the impingement of said preheat oxidizing gas and preheat fuel gas streams, and

(c) continuing steps (a) and (b) until said spot reaches its oxidising gas ignition temperature, and thereafter.

(Complete specification 31 pages. Drawing 6 sheets).

CLASS 145-D.

148670.

PRINTED SPECIFICATION PUBLISHED

Int. Cl.-D21f-1/66-3/02.

"IMPROVEMENTS RELATING TO FORMING MACHINES FOR PAPER WEBS".

Applicants : BELOIT WALMSLEY LIMITED, OF ATLAS WORKS BURY, LANCASHIRE ENGLAND.

Inventors : BRINGMAN DAVID JOHN.

Application No. 650/Del/78 filed on 01-9-78.

Convention Date September 6, 1977/(37099/77) (U.K.).

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

6 Claims.

A forming machines for single-ply or double-ply webs of paper formed from a single-ply headbox or a double-ply Converflo headbox comprising a bottom wire adapted to carry stock beneath a movable top unit having an upper wire trained therearound and embodying a suction box, the suction area of the box being curved convexly in the plane parallel to the direction of movement of the wire, and the top unit being adjustable vertically relative to the bottom wire and horizontally in the machine (paper-making direction, whereby the top wire running in contact with the curved surface of the suction box can be urged towards the stock-carrying bottom wire and the amount of drainage upwardly and downwardly from the stock and through the respective wires is controlled in the range of from 30% to 70% of the water from the stock carried by the bottom wire by adjusting the position of the top unit and hence of the upper wire above the bottom wire.

(Complete specification 14 pages. Drawing one sheet).

OPPOSITION PROCEEDINGS

The opposition entered by Council of Scientific and Industrial Research to the grant of a patent on application No. 142838 made by Metallgesellschaft A. G. as notified in Part-III Section 2 of the Gazette of India dated the 29th April, 1978 has been partly allowed and a patent has been ordered to be sealed on the application subject to amendment of the specification.

A limited number of printed copies of the undernoted specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot, 8, Hastings Street, Calcutta, at two rupees per copy :—

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127601 127928 127929 127930 127931 127932 127933 127934
127935 127936 127937 127938 127939 127940 147941 127942
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PATENTS SEALED

141643 146006 146679 146681 146688 146804 146863 146895
146910 146917 147383 147566

(Mechanical and General List No. 3)

The following Patents in the field of Mechanical and General Engg. Industry are not being commercially worked in India as admitted by the Patentees in the Statement filed by them under Section 146 (2) of Patents Act, 1970, in respect of the Calendar Year 1979, generally on account of want of requests for licences to work the patented inventions. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

Serial No.	Patent No.	Date of Patents	Name and Address of the Party	Titles
1	2	3	4	5
1.	134177	04-01-1972	CHICAGO PNEUMATIC TOOL COMPANY, 6 East 44th Street, New York, N. Y. 10017, U.S.A.	Pneumatic tool having combined nut running and crimping machine.
2.	134237	10-01-1972	S. MANI, Ground Floor, 130/B, Jodhpur Park, Calcutta-31, W. B., India.	Gearing and lubricating means.
3.	134238	10-01-1972	-do-	-do-
4.	134279	14-01-1972	F. L. SMIDTH AND COMPANY A/S, 77 Vigerslav Alle, Dk-2500, Copenhagen-Valby, Denmark.	Grinding Mills.
5.	134283	14-01-1972	USS ENGINEERS AND CONSULTANTS INC., 600 Grant Street, Pittsburgh, Pennsylvania, U. S. A.	Apparatus for adjustment of side trimmer knife.

1	2	3	4	5
6.	134539	08-02-1972	VEB POLYGRAPH LEIPZIG COMBINAT FUR POLYGRAPHISCHE MASCHINEN UND AUSTRUSTUNGEN, 59 Zweinaudorfer Strasse, 705, Leipzig, East Germany.	Apparatus for thread-sealing together two sheet portions.
7.	134540	08-02-1972	-do-	Thread stitching apparatus.
8.	134541	08-02-1972	-do-	Stiching apparatus.
9.	134542	08-02-1972	-do-	Producing folded and thread-sealed sheet products.
10.	134567	10-02-1972	CLUETT, PEABODY & COMPANY LIMITED, 433 River Street, Troy, New York, U.S.A.	Producing a knit fabric.
11.	134587	11-02-1972	WILHELM STAHLER G. m. b. H., 7341, Reichenbach, West Germany.	Spinning turbine.
12.	134598	14-02-1972	USS ENGINEERS & CONSULTANTS INC., Pittsburgh, Pennsylvania, U.S.A.	Apparatus for measuring oxygen of a fluid.
13.	134599	14-02-1972	DRESSER INDUSTRIES INC., P. B. 718, Dallas, Texas, U.S.A.	Annular seal assembly and arrangement of annular seals.
14.	134600	14-02-1972	-do-	Compressor pump.
15.	134616	15-02-1972	INDUSTRIAL LABORATORIES AB, Myntgatan 21, S-55257, Jonkoping, Sweden.	Machines for wax matches.
16.	134618	15-02-1972	WOOD BROTHERS GLASS COMPANY LIMITED, Borough Flint Glass Works, Bernsley, Country of York, England.	Marking graduated volumetric measuring vessels of glassware and like material.
17.	134628	16-02-1972	WESTNGHOUSE BRAKE AND SIGNAL COMPANY LIMITED, John Street, London, England.	Valve means.
18.	134654	17-02-1972	DRESSER INDUSTRIES INC., National Bank Building, Dallas, Texas, U.S.A.	Packing for compressors, pumps or like.
19.	134677	19-02-1972	USS ENGINEERS & CONSULTANTS INC., Pittsburgh, Pennsylvania, U. S. A.	Controlling weight and distribution of coating on a substrate.
20.	134722	23-02-1972	-do-	Adjustable conducting roll apparatus.
21.	134743	24-02-1972	F. L. SMIDT & COMPANY, A/s 77, 77 Vigerslev-Alle Copenhagen-Valby, Denmark.	Heat exchanger.
22.	134831	04-03-1972	DAVID L. ROWLAND, 8 East 62nd Street, New York, N. Y. 10021, U.S.A.	Assemblies of seats and backs usable in furniture automobiles and other transport vehicles.
23.	134856	27-07-1970	TED BILDPLATTEN A. G., Telefunken Teldec CH-6301, Zug/schweiz, Hanibuhl 8, F.R.G.	A pick-up for scanning a carrier along a predetermined track.
24.	134885	08-03-1972	HENRICH WIGGER & COMPANY, 475 Unnd/West 7, Morgan Str. 39/41, FRG.	Chopper (chipping machines) for the crushing, particularly of raw material of small cross-section such as wood waste (chips of wood) and similar material.
25.	134889	09-03-1972	GIRLING LIMITED, King's Road, Tyseley, Birmingham 11, Warwickshire, England.	Sliding caliper disc brakes.
26.	134890	09-03-1972	-do-	-do-
27.	134949	15-03-1972	THE GILLETE COMPANY, Prudential Tower Building, Boston, Massachusetts, U.S.A.	Razors.
28.	134950	15-03-1972	-do-	Disposable razor blade units.
29.	134951	15-03-1972	-do-	Package for razor blade units.
30.	134975	17-03-1972	WILHELM STAHLER G. m. b. H., Reichenbacher Gaslingen/Steige, West Germany.	Break or open end spinning rotor or turbine.

1	2	3	4	5
31.	134991	20-03-1972	REPLA INTERNATIONAL SAH, Boulevard Napoléon, Luxembourg.	56, Producing an article catching strip and strips so made.
32.	135022	22-03-1972	WILLIAM PRYM WERKE KG, 519, Stolberg/Rhlo, Zwölfäber Str. 5-7, FRG.	Manufacturing of sliding clasp fastener.
33.	135084	28-03-1972	AUTOMOTIVE PRODUCTS COMPANY, LIMITED, Tachbrook Road, Leamington Spa, Warwickshire, England.	Friction clutches.
34.	135087	28-03-1972	DANA CORPORATION, 4500 Dorr Street, City of Toledo, State of Ohio, U.S.A.	Bearing cup for a universal joint.
35.	135103	26-10-1972	MADURAI RAJGOPALA VENKATARAM, No. 2, Sathyanarayana Avenue, Madras-28, Tamil Nadu, India.	New method of erecting buildings like residential houses, public building or an office.
36.	135131	03-04-1972	DUNLOP HOLDINGS LIMITED, Dunlop House, Ryder Street, St. James, London SW1, England.	Pneumatic tyres.
37.	135151	04-04-1972	USS ENGINEERS & CONSULTANTS INC., 600 Grant Street, Pittsburgh, Pennsylvania, U.S.A.	Operating mechanism for slidable gate closures.
38.	135186	06-04-1972	-do-	-do- Replacing a holder for a pouring tube on a bottom pour vessel.
39.	135187	06-04-1972	THE FIRESTON TIRE & RUBBER COMPANY, 1200 Firestone Parkway, Akron, Ohio, U.S.A.	Mixing and forwarding a flowable material.
40.	135200	07-04-1972	F. L. SMIDTH & COMPANY A/S, Copenhagen-Vallby, Denmark.	Coolers for rotary kilns.
41.	135201	26-11-1970	THE OFFSHORE COMPANY, P. B. 2765, Houston, Texas, 77110, U.S.A.	Drilling platform.
42.	135237	11-04-1972	SULZER BROTHER LIMITED, Winterthur, Switzerland.	Differential gears.
43.	135293	17-04-1972	WESTINGHOUSE ELECTRIC CORPORATION, Westing House Building, Gateway, Centre, Pittsburgh, Pennsylvania, U.S.A.	Plug in bus duct with heat dissipation means.
44.	135359	03-05-1972	F. L. SMIDTH & COMPANY A/S, Denmark.	Method and rotary kiln plant for manufacturing cement.
45.	135369	25-05-1972	GIRLING LIMITED, Warwickshire, England.	Fluid level indicating devices.
46.	135388	08-09-1972	PRESSURE COOKERS & APPLIANCES LIMITED, United India Building, Sir P. M. Road, Bombay-1, Maharashtra State, India.	Manufacturing broad based pots of pressure cookers and the pots so made.
47.	135454	05-07-1972	RUTI MACHINERY WORKS LIMITED, Ruti, Zurich, Switzerland.	Braking the picker stick of a loom.
48.	135463	07-08-1972	LINDEN-ALIMAK AB, 93103, Skelleftea, Sweden.	A lift assembly with drift mining equipment for driving raises and the like in rock.
49.	135469	18-05-1972	VARIABLE KINETIC DRIVES LIMITED, Rose Cottage, Pillory Green, Napton Rugby, Warwickshire, London, England.	Torque converter coupling.
50.	135473	25-07-1972	DUNLOP LIMITED, Dunlop House, Ryder Street, St. James London, England.	Wheel assemblies.
51.	135474	25-07-1972	DUNLOP LIMITED, London, England.	Wheel Assemblies.
52.	135545	19-07-1972	F. L. SMIDTH & COMPANY A/S, Denmark.	Rotary kiln.
53.	135547	04-07-1972	TADEUSZ SENDZIMIR, 269, Brookside Road, Waterbury, Connecticut, U.S.A.	Rolling mills.
54.	135565	06-09-1972	COMBUSTION ENGINEERING INC., 1000 Prospect Hill Road, Windsor, U.S.A.	Pipe bends from cold formed half tori and apparatus for cold forming torus.

1	2	3	4	5
55.	135602	16-05-1972	WESTINGHOUSE AIRBRAKE COMPANY, Pittsburgh, Pennsylvania, U.S.A.	Quick service valve device for fluid pressure brake system.
56.	135603	26-04-1972	HEIMO-GERATEBAU GMBH, 7972/Insy/Alligen Max-Eyth-weg 42, FRG.	Spraying or smoke laying apparatus.
57.	135606	04-11-1972	GIRLING LIMITED, Warwickshire, England.	Two pedal hydraulic braking system.
58.	135620	21-11-1972	HAROLD GEORGE, POOLE, Aspendon House, Aspendon, Butingford, Hertfordshire, England.	Towing connections.
59.	135621	03-07-1972	WILLIAM PRYM WERKE KG, Zwiefaller Str. FRG.	Apparatus for manufacturing sliding clasp fasteners.
60.	135667	25-10-1972	COMBUSTION ENGINEERING INC., Prospect Hill Road, Windsor, Connecticut, U.S.A.	Briquetting press with briquette removal mechanism.
61.	135668	25-10-1972	-do- -do-	Ram tip securing arrangement.
62.	135696	05-12-1972	THE TEXTILE AND ALLIED INDUSTRIES RESEARCH ORGANISATION, Kalabhavan Premises, Baroda-1, Gujarat, India.	Rotor for open-end spinning.
63.	135697	05-12-1972	THE TEXTILE & ALLIED INDUSTRIES RESEARCH ORGANISATION, Kalabhavan Premises, Baroda-1, Gujarat, India.	Improved open-end spinning device.
64.	135698	05-12-1972	-do- -do-	Housing for an open-end rotor.
65.	135712	09-06-1972	PALITEX PROJECT COMPANY GmbH, Weeserweg 8, 4150 Krefeld, West Germany.	Scrapping roller.
66.	135717	16-09-1972	METROPOLITAN TOOL & PRODUCTS LIMITED, Lilac Grove, Beeseton, Nottingham, England.	Drive arrangements for cable reeling drums.
67.	135735	17-05-1972	F. L. SMIDTH & COMPANY A/S, Denmark.	Rotary kiln.
68.	135736	21-08-1972	JERVIS B. WEBB COMPANY, 9000 Alpine Avenue, Detroit, Michigan 48204, U.S.A.	Conveyor system.
69.	135737	14-07-1972	GIRLING LIMITED, Warwickshire, England.	Railway brakes.
70.	135751	08-08-1972	THE TIMKEN COMPANY, 1835 Dueber Avenue, S. W. Canton, Ohio, U.S.A.	Rolling strip material.
71.	135754	19-09-1972	F. L. SMIDTH & COMPANY A/S, Denmark.	Rotary kiln.
72.	135762	01-07-1972	PALITEX PROJECT COMPANY GmbH, Krefeld, FRG.	Braking or stopping a spinning or twisting spindle more especially a double twisting spindle in a specific position of a spindle.
73.	135773	08-09-1972	WILHELM STAHLCKER GmbH Geislingen/Steige, West Germany.	Mountings for open-end or break spinning machines.
74.	135774	08-09-1972	-do- -do-	Open-end spinning machines.
75.	135798	25-10-1972	COMBUSTION ENGINEERING INC., Connecticut, U.S.A.	Briquetting press with briquette conveying facility.
76.	135816	13-06-1972	ELKEM SPIGERVERKET A/S, Middlethunsgate 27, Elkem Huset, Oslo, Norway.	Rotatable gas tight valve.
77.	135836	01-07-1972	PALITEX PROJECT COMPANY, GmbH, West Germany.	A spinning or twisting machine especially a double-thread twisting machine.
78.	135880	04-10-1972	COMBUSTION ENGINEERING INC., Connecticut, U.S.A.	A mechanical separator.
79.	135881	25-07-1972	1. F. G. RAICK 278, West Place, Westwood, New Jersey, 2. J. R. WILDER, 151W, 80th Street, New York, and 3. F. R. PIENT Rt.22, Driveway No. 4 Mountain side, New Jersey all from U.S.A.	Surgical evacuator.

1	2	3	4	5
80.	135888	08-08-1972	FIBREGLASS LIMITED, 201-211 Martins Building Water Street, Liverpool 12, Lancashire, England.	Winding apparatus.
81.	135892	26-10-1972	GIRLING LIMITED, Warwickshire, England.	Shoe drum brakes.
82.	135898	09-03-1972	INDIAN JUTE INDUSTRIES RESEARCH ASSOCIATION, 17 Taratola Road, Calcutta, West Bengal, India.	Flyers for textile machinery.
83.	135914	08-05-1972	GIRLING LIMITED, Warwickshire, England.	Disc brakes.
84.	135922	19-05-1972	ACME-CLEVELAND CORPORATION, 170, East 131 Street, Cleveland, Ohio, U.S.A.	A foundry mixing machine.
85.	135933	24-10-1972	GIRLING LIMITED, Warwickshire, England.	Tandem master cylinder for hydraulic braking system.
86.	135934	30-05-1972	NATIONAL INSTITUTE OF DESIGNS, Paldi, Ahmedabad-1, Gujarat, India.	A cycle.
87.	135935	22-11-1972	GIRLING LIMITED, Warwickshire, England.	Internal shoe drum brakes.
88.	135959	15-02-1973	INDIAN JUTE INDUSTRIES RESEARCH ASSOCIATION, Calcutta, W.B., India.	Mechanical extraction of a proportionate amount batch oil from textile products.
89.	135980	28-04-1972	THE JACOBS MANUFACTURING COMPANY LIMITED, Archer Tool Works, Archer Road, Sheffield 8, England.	Drill chucks.
90.	135993	26-06-1972	USS ENGINEERS & CONSULTANTS INC., Pittsburgh, Pennsylvania, U.S.A.	Temperature sensing device for continuous casting moulds.
91.	136014	06-07-1972	C. EUGEN MAIER GMBH, Metallverarbeit. Friedr.-Hst-Strasse, 41, Fellback, West Germany.	Flyer wings for spinning frames.
92.	136062	22-06-1972	GIRLING LIMITED, Warwickshire, England.	Disc brake for vehicles.
93.	136077	18-07-1972	BICC LIMITED, 21 Bloomsbury Street, London, England.	Drawing wire.
94.	136087	21-09-1972	CATERPILLAR TRACTOR COMPANY, 100, N. E. Adams Street, Peoria, Illinois, U.S.A.	Track idler wheel.
95.	136090	13-02-1973	BELOIT CORPORATION, 1 St. Lawrence Avenue, Beloit, Wisconsin, U.S.A.	Slice lip for a head box of paper making machines.
96.	136098	04-07-1972	JOHNSON & JOHNSON, 501, George St., New Brunswick, New Jersey, U.S.A.	Improved dispensing container.
97.	136103	04-01-1972	CHICAGO PNEUMATIC TOOL COMPANY, 6 East 44th Street, New York, N.Y. 10017, U. S. A.	Crimping mechanism in a nut runner.
98.	136104	04-01-1972	-do-	Nut crimping mechanism.
99.	136126	16-09-1972	DEERE & COMPANY, Moline, Illinois, U.S.A.	Self levelling combine.
100.	136137	15-03-1972	THE GILLETTE COMPANY, Prudential Tower Building, Boston, Massachusetts, U.S.A.	Disposable razor blade units.
101.	136138	15-03-1972	-do-	Razor blade unit.
102.	136141	03-11-1972	THE T. A. I. R. O., Baroda, Gujarat, India.	Device for doffing or stripping web from doffer of a carding machine.
103.	136142	27-05-1972	THE WARNER AND SWASSEY COMPANY, University Circle, Research Centre, 11000 Cedar Avenue, Cleveland, Ohio, U.S.A.	Machine Tool.
104.	136147	25-08-1972	INTERNATIONAL HOUSING LTD., P. B. 1379, Pembroke, Bermuda.	System for making cast-in-place concrete structures.
105.	136164	07-07-1973	SNAMPROGETTI, S. p. A., 17 Corso Venezia, Milan, Italy.	Vehicles.

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106.	136171	27-07-1972	INDUSTRIE PIRELLI SOCIETE PER- ALION, Centro Pirelli, Piazza Duca D' Aosta No. 3, Milan, Italy.	Pneumatic tyres for vehicle wheels.
107.	136178	06-02-1974	KRISHNA RAMCHANDRA DATYE, Flat No. 10, Behind Dena Bank, Nehru Road, Ville Parle (East), Bombay, India.	Strengthening natural soft ground artificial fills made in ground or re- claimed land and like for building houses or other structures.
108.	136186	22-11-1971	GIRLING LTD, Warwickshire, England.	Brake shoe adjusters.
109.	136214	30-05-1972	ACTIEF N. V. Handlesheadeade 24, Willen- stand, Curacao, Netherlands.	Fastener.
110.	136227	20-06-1972	FICHTEL & SACHS AG, 872 Schweifurt Gm Main, Ernst-Sachs-Strasse 62, F.R.G.	Combustion Engine.
111.	136233	09-05-1972	USS ENGINEERS & CONSULTANTS INC; Pittsburgh, Pennsylvania, U.S.A.	Self aligning and flexing guide roll rack for continuous casting machines.
112.	136234	09-05-1972	USS ENGINEERS & CONSULTANTS INC., Pittsburgh, Pennsylvania, U.S.A.	Continuous casting machine.
113.	136239	27-04-1972	FISONS LIMITED, Fison House, 9 Gros- venor Street, London, England.	Prilling head used for prilling.
114.	136278	08-08-1972	ENVIROTECH CORPORATION, 537 West Sixth South Road, Salt Lake City, Utah, U.S.A.	Raking structure for urging sediment in sedimentation tanks.
115.	136279	17-02-1973	THYSSEN PUROFER GMBH, 42 Iber- hausen Essener Strass 66, FRG.	Flap type closure on draw off apparatus for spongy iron.
116.	136280	07-04-1973	TEA RESEARCH ASSOCIATION, Royal Exchange 6, Netaji Subhash Road, Calcutta, West Bengal, India.	Improved tea processing machine.
117.	136287	29-08-1972	GERARD BLUM, 12 rue Pont, Prouller, La Tronche, Isere, France.	Measuring area of flat flexible articles.
118.	136299	27-05-1972	NATIONAL INSTITUTE OF DESIGNS, Paldi, Ahmedabad-7, Gujarat, India.	Constructing a frame from an angle section.
119.	136302	10-01-1973	F. L. SMIDTH & COMPANY A/S, Denmark.	Rotary kiln.
120.	136319	22-06-1972	MINNESOTA MINING AND MANU- FACTURING COMPANY, 3M Centre, Saint & Paul, Minnesota, U.S.A.	Magnetic recording tape.
121.	136332	06-12-1972	CARBORUNDUM UNIVERSAL LTD., 11/12, North Beach Road, Madras-1. Tamil Nadu, India.	Scrubbing and mopping pads.
122.	136358	17-06-1972	ARMOSIG, 22 Avenue de la Jonchere, 78 La Celle-Saint Cloud, France.	Hot die for extruding tubular sections.
123.	136369	08-08-1972	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Imperial Chemical House, Millbank, London SW1. England.	Weld clip applicator.
124.	136387	28-09-1972	USS ENGINEERS & CONSULTANTS INC; Pittsburgh, Pennsylvania, U.S.A.	Continuous casting by means of verti- cally descending of starter bar.
125.	136398	13-12-1972	KNORR BREMSE GmbH, 80 Moosachers- trass 8 Munchen 17, FRG.	Control valve for pressure air brake installation on railway vehicles.
126.	136427	19-10-1972	PALITEX PROJECT COMPANY, GmbH, Weeserweg, 8, 415 Krefeld, West Germany.	Gas singeing device for double twisting machines.
127.	136436	23-10-1972	KOPPERS COMPANY INC., 436 Seventh Avenue, Pittsburgh Pennsylvania, U.S.A.	Annulus for use in resilient couplings.

COMMERCIAL WORKING OF PATENTED INVENTION

(MECHANICAL & GENERAL LIST NO. 4)

The following Patents in the field of Mechanical and General Engg. are not being commercially worked in India as admitted by the Patentees in the statement filed by them under Section 146(2) of Patents Act, 1970, in respect of the Calendar Year 1979, generally on account of want of requests for licences to work the patented inventions.

Persons who are interested to work the said patents commercially may contact the patentees or the grant of a licence for the purpose.

S No.	Patent No.	Date of Patent	Name and address of the party	Title
1	2	3	4	5
1.	133884	08-12-1971	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V., Carel Van, Bylandtlaan 30, The Hague, Netherlands.	Mixing apparatus for gases.
2.	135784	11-10-1972	GUSTAV SCHADE MASCHINENFABRIK GmbH & Co; D-46 Dortmund, Am. Rosenplatzchen 120, FRG.	Scraper for the removal of material from storage for use with bulk material dumps
3.	136438	24-04-1972	SNAMPROGETTI S. p.A., 16 Corso Vene- zia, Milan, Italy.	Microcontainer.
4.	136454	12-06-1972	JAMES ALEXANDER MACKENZIE, 100 Branson Avenue, Ottawa, Ontario, Canada.	Constructional element.
5.	136472	15-03-1973	GIRLING LIMITED, King's Road, Tyseley, 11, Birmingham, Warwickshire, England.	Fluid level indicating device.
6.	136486	06-11-1972	PARKS CRAMER COMPANY, P. O. 444, Fitchburg, Massachusetts, USA.	Apparatus for and the Step of interrup- ting supply strand in a method of forming yarn in a yarn forming machine.
7.	136509	05-01-1973	CATERPILLAR TRACTOR COMPANY, 100 N.E. Adams Street, Peoria, Illinois, U.S.A.	Air-cooled resilient coupling assembly.
8.	136531	26-04-1973	ISHIKAWAJIMA-HARIMA JUKOGYO KABUSHIKI KAISHA, 2-1 Chome, Ote- machi, Chiyodaku, Tokyo 10, Japan.	Furnace.
9.	136539	03-08-1972	BINKS BULLOWS LIMITED, Pelsall Road, Brownhills, Walsall, West Mid- lands, England.	Liquid spraying apparatus.
10.	136550	17-02-1973	THYSSEN NEIDERHEIN AG, Und WALZWERKE, 42 Oberhausen, Essener Str. 66, FRG.	Apparatus for drawing off spongy iron.
11.	136551	17-02-1973	THYSSEN NIEDERHEIN AG UND WAL- ZWERKE, FRG.	Discharging apparatus for spongy iron.
12.	136585	21-11-1972	PALITEX-PROJECT-COMPANY GmbH, Weeserweg 8, 415 Krefeld, West Germany.	Braking and stopping device for double twisting spindle having a belt drive in a predetermined position.
13.	136623	27-05-1972	USS ENGINEERS & CONSULTANTS INC, 600 Grant Street, Pittsburgh, Pen- sylvania, U.S.A.	Sliding gate closure mechanism for controlling flow of molten metal.
14.	136633	11-05-1973	THE GOODYEAR TIRE & RUBBER COMPANY, 1144, East Market Street, Akron, Ohio, U. S. A.	Monitoring the condition between two elements in relative motion.
15.	136662	27-07-1972	THE K. C. P. LIMITED, 38 Mount Road, Madras-6. (T.N.), India.	Hammer Drill.
16.	136665	08-08-1972	THE BABCOCK & WILLCOX COMPANY, 161 East 42nd Street, New York, U.S.A.	Pulverised fuel delivery system blast furnace.
17.	136676	03-11-1971	TAKATA KOJYO COMPANY LIMITED, 10 Mori Building, 28 Sakuragawa-cho, Nishikuho, Shiba, Minato-ku, Tokyo, Japan.	Pipe laying apparatus.
18.	136709	04-01-1973	CATERPILLAR TRACTOR COMPANY, Illinois, U.S.A.	Variable displacement pump having pressure compensator control means.
19.	136710	04-01-1973	-do-	-do- Hydraulically powered drive and steer- ing system for track type vehicle.

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20.	136711	21-04-1973	GIRLING LIMITED, Warwickshire, England.	Railway vehicle disc brakes.
21.	136725	10-11-1972	GIRLING LIMITED, King's Road, Warwickshire, England.	Internal shoe drum brakes.
22.	136735	09-11-1972	RUTI MACHINERY WORKS LIMITED, 8630 Ruti, Zurich, Switzerland.	Clamping device on a shuttle.
23.	136754	03-01-1973	EMHART INDUSTRIES INC; 426 Colt Highway, Farmington, Connecticut, USA.	Detecting foreign particles in liquid container.
24.	136770	12-01-1973	SULZER BROTHERS LIMITED, Winterthur, Switzerland.	Thread grippers for textile machines.
25.	136782	03-12-1971	U. S. AMADA LIMITED, 615, 8th Avenue South, Seattle, Washington, U.S.A.	Punch press.
26.	136783	03-12-1971	-do-	-do-
27.	136856	24-08-1972	USS ENGINEERS AND CONSULTANTS INC; 600 Grant Street, Pittsburgh, Pennsylvania, U. S. A.	Mechanism for removal of roll rock in a continuous casting installation.
28.	136880	19-12-1972	DANA CORPORATION, 4500 Dorr Street, City of Toledo, State of Ohio, U. S. A.	Self-adjusting clutch.
29.	136893	05-04-1973	-do-	Clutch.
30.	136902	19-03-1973	ELKEM SPIGERVERKET A/S, Middlethunsgate 27, P. B. 5430, Oslo 3, Norway.	Arrangement for selective discharge of solid material from hoppers.
31.	136911	08-09-1972	DEERE & COMPANY, Moline, Illinois, U.S.A.	Hydraulic system and attenuation of pressure pulsation in hydraulic system.
32.	134970	08-03-1973	RUTI MACHINERY WORKS LIMITED, Switzerland.	Nozzle for producing a jet of a fluid for inserting weft threads in a shed on a loom.
33.	136971	02-11-1972	BATTELLE DEVELOPMENT CORPORATION, 505 King Avenue, Columbus, Ohio, U. S. A.	Concrete Structural member.
34.	136972	15-02-1973	FITCHEL & SACHS AG, Ernst-Schstrasse 62, FRG.	Multispeed transmission hub the braking operation whereof is unaffected by the engagement position of the drive.
35.	136976	03-10-1972	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, USA.	Apparatus for the rocking compaction of refractory metal powders.
36.	136959	08-05-1973	DR. C. OTTO & COMP, GmbH, Christstrasse 9, Postfach 1849/1850, 463, Bochum, West Germany.	Door for horizontal coking ovens.
37.	136993	09-07-1973	RUTI MACHINERY WORKS LIMITED, Switzerland.	Loom.
38.	137001	09-06-1972	NEDERLANDSCHE WAPEN-EN MUNITIONFABRIEK DE KNITHOORN MC. P.B. 50's Hertogenbosch, The Netherlands.	Grenade adapter.
39.	137020	31-01-1973	KABUSHIKI KAISHA YAMADA JUKI, 32, 4-ban Kumano-Cho, Nishinomiya City, Hyogo Prefecture, Japan.	Percussion apparatus.
40.	137032	10-07-1972	MAREMONT CORPORATION, 200 East Randolph Drive, Chicago, State of Illinois, U.S.A.	Self-leveling shock absorber and fluid spring assist unit.
41.	137035	21-09-1972	UNION CARBIDE CORPORATION, 270, Park Avenue, New York, N. Y., USA.	Metal objects casting apparatus.
42.	137038	06-01-1973	GIRLING LIMITED, Warwickshire, England.	Pistons.
43.	137063	26-02-1973	MONSANTO COMPANY, 800 North Lindbergh Boulevard, St. Louis, Missouri, U. S. A.	Making twisted steel wire strand or cord.
44.	137088	03-10-1972	DRESSER INDUSTRIES INC; P. B. 718, Dallas, Texas, U. S. A.	Condition responsive gauge instrument.

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45.	137091	15-12-1971	ROGER PAUL SONNEVILLE, 5 rue Maurice Ravel, 92 Saint Cloud, France.	Reinforcing device for prestressed concrete elements.
46.	137093	24-01-1973	ERIK SOLBECK, 342 Vedback Strandvej, 2950, Vedback, Denmark.	Producing non-woven nettings.
47.	137106	23-03-1973	CATERPILLAR TRACTOR COMPANY, 100 N. E. Adams Street, Peoria, Illinois, U. S. A.	Flexible seal.
48.	137112	24-08-1973	RUTI MACHINERY WORKS LIMITED, Ruti, Zurich, Switzerland.	Temple roller.
49.	137140	02-07-1973	NATIONAL INSTITUTE OF DESIGN, Paldi, Ahmedabad-7, Gujarat, India.	Cycle.
50.	137155	09-10-1972	FOSTER WHEELER CORPORATION, 110 South Orange Avenue, Livingston, New Jersey, U. S. A.	Erosion resistant sensing device.
51.	137156	13-10-1972	VEB WIRKMASCHINENBAU KARL MARX STADT, 90 Karl-Marx-Stadt, Annabergerstrasse 73, GDR.	Crochet galloon machine.
52.	137173	05-05-1973	AG FR. METTLER'S SOEHNE, 6415 Arth, Switzerland.	Mounting device for tapering tubes.
53.	137177	21-04-1972	DUNLOP LIMITED, Dunlop House, Ryder Street, St. Jame's. London SW1, England.	Road surfacing material.
54.	137233	30-03-1973	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi, India.	A letter bomb detector.
55.	137255	28-11-1972	NORTON COMPANY, 1 New Bond Street, Worcester, State of Massachusetts, U.S.A.	An abrasive wheel.
56.	137263	05-01-1973	CATERPILLAR TRACTOR COMPANY, Illinois, U.S.A.	Gear drive mechanism or excavator.
57.	137264	02-01-1973	GIRLING LIMITED, Warwickshire, England.	Automatic adjuster for shoe drum brakes.
58.	137289	27-12-1973	TEA RESEARCH ASSOCIATION, Royal Exchange, 6, Netaji Subhas Road, Calcutta, India.	Continuous tea rolling machines.
59.	137294	31-12-1972	KNORR BREMSE GMBH, 80 Moosacher Strasse, 8 Munchen 13, FRG.	Control valve for pressure air brake installations in railway vehicles.
60.	137295	14-12-1972	C. S. I. R., New Delhi, India.	Motor operated jack.
61.	137300	16-10-1973	-do-	Loop device.
62.	137310	09-01-1973	GIRLING LIMITED, Warwickshire England.	Tandem master cylinder for hydraulic braking system.
63.	137361	11-01-1973	ABEX CORPORATION, 530 Fifth Avenue, New York, N. Y., U.S.A.	Friction element for vehicle brake linings.
64.	137370	09-04-1973	USS ENGINEERS AND CONSULTANTS INC; Pittsburgh, Pennsylvania, USA.	Sliding gate closure construction for bottom pour vessels.
65.	137469	17-04-1973	NISSEI PLASTICS INDUSTRIAL COMPANY LIMITED, 2110 Oaza, Minlamijo, Sakaki-machi, Hanishina-gum, Nagano-ken, Japan.	Injection moulding machine for moulding synthetic resin.
66.	137470	09-10-1972	FOSTER WHEELER CORPORATION, 110 South Orange Avenue, Livingston, New Jersey, U. S. A.	Cooling tube ferrule.
67.	137472	14-11-1972	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, U.S.A.	Sensing system for cut-to-length shear.
68.	137486	19-07-1973	1. THE ATLAS CYCLE INDUSTRIES LIMITED, Industrial Estate, Sonapat (Distt. Rohtak), Haryana, and 2. JAIDEV KAPUR, 3-Aurangzeb lane, New Delhi, India.	Cycle exerciser.

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69.	137488	05-01-1973	CATERPILLAR TRACTOR COMPANY, Illinois, U.S.A.	Hydraulic circuitry for an excavator.
70.	137489	05-01-1973	-do-	Swing transmission for excavators.
71.	137503	08-12-1972	RENE SOWM 2 rue Johimont, 31 Tolouse, France.	Linking means for linking pairs of pre-fabricated concrete elements.
72.	137527	02-07-1973	THE K. C. P. LIMITED, Ramakrishna Buildings, 38 Mount Road, Madras, Tamil Nadu, India.	Clarifying apparatus for use in the clarification of sugarcane juice and other liquid.
73.	137527	25-03-1974	C. S. I. R., New Delhi, India.	A high pressure cell for the production of hydrostatic pressures of the order of 70000 to 80000 P.S.I.
74.	137577	12-06-1973	HOESCH MASCHINENFABRIEK DENT-SCH LAND AG, Borringstrasse, 22, 46 Dortmund, FRG.	Re-railing of rail vehicles.
75.	137590	28-04-1973	NISSEI PLASTICS INDUSTRIAL COMPANY LIMITED, 2110 Oaza-Minamijo, Sakaki-machi, Hamishina-gun, Nagano-Ken, Japan.	Valve attachment structure for injection moulding machine.
76.	137642	24-03-1973	THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio, U.S.A.	House coupling members.
77.	137655	21-07-1973	C. S. I. R., New Delhi, India.	Determination of acoustic anisotropy.
78.	137708	12-07-1973	NORTHEY ROTARY COMPRESSORS LIMITED, Alder Road, Parkstone, Poole, Dorset, England.	Rotary engines or pumps.
79.	137720	23-05-1973	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, U.S.A.	Thrust bearing assembly.
80.	137855	05-01-1973	CATERPILLAR TRACTOR COMPANY, Illinois, U.S.A.	A mounting assembly for slidably supporting a track idler.
81.	137891	29-12-1972	THE FIBERWOVEN CORPORATION, EAST Main Street, Elkin, North Carolina, U.S.A.	Needled textile fabric and process for producing the same.
82.	137950	31-01-1973	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, USA.	A system for measuring the flow velocity rate of a liquid.
83.	137955	04-04-1973	CATERPILLAR TRACTOR COMPANY, Illinois, U. S. A.	Underspeed valve hydrostatic control system.
84.	137983	18-07-1973	SEAMAN CORPORATION, R. B. 1, Millersburgh, Ohio, U.S.A.	Rigid frame, tensioned fabric structure.
85.	138006	20-02-1973	UOP INC; Ten UOP Plaza, Algonquin and Mt. Prospect Road, Des Plaines, Illinois, U. S. A.	Internally ridged heat transfer tube and method of designing for optimum.
86.	138028	05-11-1973	CARBORUNDUM UNIVERSAL LIMITED, North Beach Road, Madras-1, Tamil Nadu, India.	Abrasive articles and method of making the same.
87.	138044	12-01-1973	UOP INC. Mt. Prospect, Des Plaines, Illinois, U.S.A.	High-fin integral finned tube of heat resistant alloys and multipass process for making the same.
88.	138064	17-01-1973	C. S. I. R., Rafi Marg, New Delhi, India.	A machine for testing taxi meters.
89.	138072	16-10-1973	PALITEX PROJECT COMPANY GmbH Weeserweg 8, 415 Krefeld, West Germany.	Device and method for use in position-of a spindle rotor of a spinning or twisting spindle especially a double twist.
90.	138073	07-12-1973	GIRLING LIMITED, Warwickshire, England.	Vehicle brakes.
91.	138113	04-07-1973	EMHART INDUSTRIES INC; Connecticut, U.S.A.	Method and means for automatically regulating weight of articles in glassware forming machine.
92.	138114	19-07-1973	SILO VERFAHRENS AG, CH 6301, Zuglschweiz, Hofastrasse 1, Switzerland.	Production of tube.

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93.	138151	18-04-1973	AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION. P. O. Polytechnic, Ahmedabad-15, Gujarat, India.	Recovery of waste heat from hot dryers.
94.	138195	11-01-1974	WESTINGHOUSE AIR BRAKE COMPANY, pittsburgh, Pennsylvania, USA.	Blonding valve device for combining fluid pressure and dynamic brakes.
95.	138221	11-01-1974	WESTINGHOUSE BRAK & SIGNAL COMPANY LIMITED, 3 John Street, London WC1 N2ES, England.	Brake cylinder release valve apparatus.
96.	138249	10-07-1973	FERRANTI LIMITED, Hollinwood, Lancashire, England.	An internal guidance system for aircrafts.
97.	138353	05-07-1973	AMPLIFORM PTY LIMITED, 95 Collins Street, Melbourne, State of Victoria, Commonwealth of Australia.	Slotting strip material.
98.	138370	25-05-1974	FERRANTI LIMITED, Lancashire, England.	Apparatus for checking and connecting the heading alignment of an inertial platform carried by a vehicle.
99.	138377	03-03-1973	SOCIETE NATIONALE DES POUDRES ET EXPLOSIES, 12 Quai Henri, IV, Paris Cedex 04, France.	Solid fuel rocket engine.
100.	138542	29-05-1973	FISCHER GESELSCHAFT m.b.H. 10-11 Friesgasse, A4910 Ried-in Innkreis, Austria.	Racket and a method for making it.
101.	138550	17-01-1973	PANEFOLD DOORS INC; N.W. 36th Avenue, Miami, Florida, USA.	Extruded plastic folding door.
102.	138585	22-03-1973	GIRLING LIMITED, Warwickshire, England.	Brake adjusters.
103.	138639	22-05-1973	SOCIETE NATIONALE DES POUDRES ET EXPLOSIES, 12 Quai Henry IV, Paris Cedex 04, France.	Apparatus for machining the inside of large cylindrical bodies.
104.	138654	18-04-1974	PARKS CRAMER (GR. BRITAIN) LIMITED, Suthers Street, Oldham, Lancashire, England.	Apparatus for collecting fibre waste from open-end spinning machines.
105.	138656	19-03-1973	USS ENGINEERS AND CONSULTANTS INC; Pittsburgh, Pennsylvania, U.S.A.	Rolling mill mould.
106.	138681	19-11-1973	CATERPILLAR TRACTOR COMPANY, Illinois, U. S. A.	Flat track shoe with tapered end ribs.
107.	138693	26-03-1973	DR. KARL GESELLSCHAFT mbH D-7950, Biberach an der Riss, FRG.	Containers.
108.	138703	07-08-1973	DUNLOP LIMITED, Ruder Street, St. Jame's London, England.	Apparatus for curing elongated articles.
109.	138717	30-01-1973	CATERPILLAR TRACTOR COMPANY, Illinois, U. S. A.	Pilot control valve.
110.	138733	29-03-1974	F. L. SMIDT & COMPANY A/S 77 Vigerslev Allé, DK 2500, Copenhagen-Valby, Denmark.	Rotary drum with transmissionless drive.
111.	138746	12-02-1973	ONADA CEMENT COMPANY LIMITED, 6276 Oaza, Onadashi Yamaguchi-ken, Japan.	Heating apparatus for powdered and pulverised material.
112.	138748	28-02-1974	SNAMPROGETTI S. p. A. Corso Venezia, Milan Italy.	A vehicle for introduction into, movement along a pipeline and for carrying construction, maintenance and test function inside the pipeline.
113.	138763	11-09-1973	CHICAGO PNEUMATIC TOOL COMPANY, 6 East 44th Street, New York, N. Y., U.S.A.	Stall torque air shut-off control for pneumatic nut runners.
114.	138773	12-09-1973	ELCALOR AG, Bleichewattstrasse, 5000 Aarau, Switzerland.	Testing device for hollow bodies.
115.	178775	12-10-1973	DEERE & COMPANY, Moline, Illinois, U. S. A.	Agricultural machines with engine enclosure and means for filtering engine cooling air.

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116.	138777	03-06-1974	1. KUMUNDUR SRINIVASIYANGAR RANGASAMI and 2. RASAVIHARI BURRA both of Regional Engg. College, Rourkela 8, Orissa State, India.	Double layered-braced domes.
117.	138780	16-04-1974	GIRLING LIMITED, Warwickshire, England.	Hydraulic braking systems for vehicle.
118.	138799	06-12-1973	UOP INC; Ten UOP Plaza, Illinois, USA.	Vehicle seats.
119.	138802	03-03-1973	JACQUES HENRY MERCIER, 49 rue de Naples, Paris (8 eme), France.	Pressure vessels.
120.	138809	13-03-1973	DR. C. OTTO & COMP GmbH, Christstrasse 9, Postfach 1849/1850, 463 Bochum, West Germany.	Hot blast stove.
121.	138820	14-01-1974	G. D. SOCIETA PER AZIONI, Via Pomponia 10, Bologna, Italy.	Device for coordinating and feeding separated objects, like sweet wrapping machine.
122.	138842	12-06-1973	EMHART (U. K.) LIMITED, Crompton Road, Wheatley Doncaster, Yorkshire, England.	Valve back.
123.	138897	02-02-1973	SAINI GOBAIN INDUSTRIES, 62 Boulevard, Victor-Hugo, Neuilly-sur-Seine, France.	Composite constructional element for acoustic insulation.
124.	138898	29-03-1974	WERNER GLATT, 7859, Haltingen, West Germany.	Drying device for a rotary dragee-making kettle.
125.	138925	28-05-1974	HARBANSLAL MALHOTRA & SONS LIMITED, 12 New C.I.T. Road, Calcutta, West Bengal, India.	A blade dispenser.
126.	138926	12-03-1973	JACQUES HENRI MERCIER, Paris, France.	Pressure vessels.

COMMERCIAL WORKING OF PATENTED INVENTION

MECHANICAL & GENERAL LIST NO. 5

The following Patents in the field of Mechanical and General Engg. are not being commercially worked in India as admitted by the Patentees in the statement filed by them under Section 146(2) of Patents Act, 1970 in respect of the Calendar Year 1979, generally on account of want of requests for licences to work the patented inventions.

Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

S. No.	Patent No.	Date of Patent	Name & address of the party	Title
1	2	3	4	5
1.	138953	13-06-1973	CANADIAN JESUIT MISSIONS, 833 Broadview Avenue, Toronto, Ontario, Canada.	I.C. Engine using hydrogen as a fuel.
2.	138962	25-04-1974	THE ENGLISH CARD CLOTHING COMPANY LIMITED, Acrc Street, Lindley, Huddersfield, Yorkshire, England.	Foundation for card clothing.
7.	138974	27-06-1973	PALITEX PROJECT COMPANY, GmbH, Weeserweg 8, 415 Krefeld, West Germany.	Suction means for use on spinning twisting or winding machines.
4.	138975	01-08-1973	ALUMINIUM COMPANY OF AMERICA, Alcoa Building, Pittsburgh, Pennsylvania, U.S.A.	Digitally operable container closure.
5.	138987	11-05-1973	S. N. HARLAKA, 196/C, Cittaranjan Avenue, Calcutta-17, West Bengal, India.	Slotted angles.
6.	138992	24-05-1974	WESTERWALDER EISENWERK GERHARD KG, 5241, Weitefeld/Seig, FRG.	Fluid tight transport container for flowable goods.
7.	138996	07-03-1977	THE GOODYEAR TIRE AND RUBBER COMPANY, 1144 East Market Street, Akron, Ohio, U.S.A.	Building machine.

1	2	3	4	5
8.	139011	14-03-1973	USS ENGINEERS AND CONSULTANTS INC; 600 Grant Street, Pittsburgh, Pennsylvania, U.S.A.	Idler roll mounting construction.
9.	139042	23-05-1973	ROY J. WEIKERT C/o General Films INC; Covington, Ohio, USA.	Filling and sealing system.
10.	139044	16-01-1974	VYZKUMNY USTAV BAVLNARSKY, Ustinad, Orliá, Czechoslovakia.	Separating fibers for ringless spinning.
11.	139070	23-04-1974	GUSTAV ICEES, Karlsbader Strasse, la 6461 Gelnhausen/Heller, West Germany.	Wall element for use as a stress-bearing outer wall part.
12.	139073	01-05-1974	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V. 30 Carel Van Bylandtlaan, The Hague, The Netherlands.	Partial combustion of fuel using atomiser.
13.	139080	26-02-1973	USS ENGINEERS & CONSULTANTS INC; Pittsburgh, Pennsylvania, USA.	Apparatus for rotating elongated articles.
14.	139094	17-07-1974	GIRLING LIMITED, Kings Road, Tyseley, 11, Birmingham, Warwickshire, England.	Disc brakes.
15.	139139	22-05-1974	N. P. KINARIWALA PRIVATE LIMITED 148 Mukti Maidan, Maninagar, Ahmedabad-3, Gujarat, India.	Woven fabric apted to be used in the manufacture of textile loom shuttles.
16.	139189	18-05-1973	ISHIKAWAJIMA-HARIMA JUKOGYO KABUSHIKI KAISHA 2-1 Chome, Otemachi, Chiyoda-ku, Tokyo-to, Japan.	Apparatus for burning cement like material.
17.	139225	28-09-1974	ACME-CLEVELAND CORPORATION, 1242 East 49th Street, Cleveland, Ohio, U. S. A.	Foundry mixing machine.
18.	139233	28-06-1973	PALATT INTERNATIONAL LIMITED, Holcombe Road, Helmshire, Rossendale, Lancashire, England.	Sliver feeding device for an open end spinning machine.
19.	135350	02-03-1974	MESSIER-HISPANO S. A. 15 Avenue D'Eylan 75116, Paris, France.	Landing gear (under-carriage) and fuselage set with wheels drawn.
20.	139363	28-02-1974	RCA CORPORATION, 30 Rockefeller Plaza, New York N. Y. 10020, USA.	Optical system.
21.	139370	09-08-1973	E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Delaware, USA.	Compartmented packages and process for such packages.
22.	139374	26-06-1974	GIRLING LIMITED, Birmingham, England.	Control valve braking assembly for vehicle dual circuit breaking system.
23.	139442	31-05-1973	MICRO MINERAL HOLDING S. A., 14 Rue Aldringer, Grand duchy of Luyemburg.	Producing light weight concrete units.
24.	139446	16-04-1974	EMHART INDUSTRIES INC; 426 Colt Highway, Farmington, Connecticut, U.S.A.	Glass feeder tube operating mechanism.
25.	139450	28-02-1973	C. A. NORNGREN COMPANY, 5400 South Delaware Street, Littleton, Colorado, U. S. A.	Coupling unit for fluid control components and an assembly of fluid control components.
26.	139476	31-08-1973	DEERE & COMPANY, Moline, Illinois, U.S.A.	Crop harvesting machine.
27.	139486	03-04-1973	DRESSER INVESTMENT N. V., Willemsted, Curacao, Netherlands, Antilles.	Variable venturi apparatus for mixing and modulating liquid fuel and intake air for an I.C. Engine.
28.	139515	18-05-1974	SOCIETE D'ETUDES DE MACHINES THERMIQUES, 2 W Quaide Seine, Saint Denis, France.	Cleaning an exhaust gas-driven power turbine of a superheating set of heat engine.
29.	139517	28-02-1973	C. A. NORNGREN COMPANY, Littleton, Colorado, U.S.A.	Coupling two cylindrical elements like bowl guard to a housing of a fluid control component.
30.	139539	10-08-1973	1. OLE BENDT RASMUSSEN, 14 Ane-monevej, Gentofte, Denmark. 2. BEGHIN-SAY, 51239, Thumeries, France	Nets.

1	2	3	4	5
31.	139548	05-10-1974	PALITEX PROJECT COMPANY GmbH, Weeserwegs, 415 Krefeld, West Germany.	Anti-balloning device for twisting machine.
32.	139556	24-01-1974	JOHNS MANVILLE CORPORATION, Greenwood Plaza, Denver, Colorado, U.S.A.	Making a bell end of a heat deformable pipe.
33.	139562	11-01-1973	INTERNATIONAL BASIC ECONOMY CORPORATION, 1271 Avenue, of the Americas, New York, U.S.A.	Drying and compacting device for a material flowing through conduits.
34.	139579	20-06-1974	COTTON INCORPORATED, 1370 Avenue of the Americas, New York, N. Y., U.S.A.	Producing cotton fibre assemblies.
35.	139582	16-08-1974	VEREINIGTE OSTERREICHISCHE BISEN-UND STAHLWERKE-ALPINE MOUNTAIN AG, Friedrich Strasse 4, 1011 Wien, Austria.	A joint between kiln and tiltable hearth furnace.
36.	139592	29-10-1973	WERKZEUGMASCHINENFABRIK ORLIKON-BUHRLE AG, Birchstrasse 155, 8050 Zurich, Switzerland.	Wheel side controller for braked four-axle vehicles like rail-bound vehicles.
37.	139602	04-06-1974	USS ENGINEERS & CONSULTANTS INC, Pittsburgh, Pennsylvania, USA.	Apparatus for introducing gas to hot metal in a bottom pour vessel.
38.	139605	14-10-1974	PALITEX PROJECT COMPANY GmbH Krefeld, West Germany.	Double-twisting machine with a knotting device.
39.	139641	08-01-1974	G. D. SOCIETA PER AZIONI, Via Pomponia 10, Bolonga, Italy.	High speed intermittent cycle machine for wrapping pieces of soap and other similar products.
40.	139662	31-12-1974	CARDWELL WESTINGHOUSE COMPANY, 332 Michigan Avenue, Chicago, Illinois, U.S.A.	Rubber draft gear.
41.	139681	11-04-1973	SOCIETE NATIONALE DES POUDRES ET EXPLOSIFS, 12 Quai Henri IV, Paris Cedex 04, France.	Milling machine for the machining of parts of large dimensions in particularly of the blocks of solid propellants.
42.	139689	20-08-1973	VERENIGDE BEDRIJVEN, P. B. 10, Noordhoek 23, Papendrecht, The Netherlands.	Fluid actuated vibratory device.
43.	139692	13-03-1975	H. D. P. PAVARI, 77 A, Park Street, Calcutta, W. B., India.	Printing plates/blocks.
44.	139714	08-04-1974	THE EIMCO-K.C.P. LIMITED, Ramkrishna Building, 38, Mount Road, Madras, Tamil Nadu, India.	Rotary suction filter for separating solid particles from a carrier liquid.
45.	139761	27-12-1974	RUTI MACHINERY WORKS LIMITED, 8630, Ruti Zurich, Switzerland.	Bandwheel drive arrangement of looper loom automatic lubricating means.
46.	139802	28-11-1973	SANDRA RAJNANI SHROFF, Excel Estate, Swami Vivekanand Road.	Collapsible liquid container.
47.	139812	05-12-1973	GIRLING LIMITED, Birmingham, England.	Transmission members and hydraulic actuator's incorporating said members.
48.	139815	21-12-1974	H. S. GANDHI & K. S. GANDHI of 17 Camac Street, Calcutta-17, West Bengal, India.	Variable speed control device.
49.	139824	22-10-1973	CHICAGO PNEUMATIC TOOL COMPANY, 6 East 44th Street, New York, U.S.A.	Nut crimping mechanism.
50.	139836	25-06-1974	VEREINIGTE OSTERREICHISCHE BISEN-UND STAHLWERKE-ALPINE MONTAN AG, 1011, Vienna, Austria.	Tiltable container.
51.	139860	04-04-1973	WESTINGHOUSE ELECTRIC CORPORATION, Westinghouse Building, Gateway Centre, Pittsburgh, Pennsylvania, U.S.A.	Turbine speed controlling valve operation system.
52.	139921	04-09-1974	DANA CORPORATION, 4500 Dorr Street, City of Toledo, State of Ohio, U. S. A.	Lever system for friction clutches.

1	2	3	4	5
53.	139924	26-06-1973	SNAMPROGETTI S. p. A., 16 Corso Venezia, Milan, Italy.	Water desalination apparatus.
54.	139926	28-02-1974	ORTHO PHARMACEUTICAL INC; Raritan, New Jersey, U. S. A.	Body canal dialating device.
55.	139955	18-10-1973	BICC LIMITED, 21 Bloomsbury Street, London, England.	Wire drawing machinery.
56.	139969	19-12-1974	PATERSON CANDY INTERNATIONAL LIMITED, 21 The Mall, Ealing, London, England.	Weight operated control device.
57.	139982	29-10-1974	HERCULES INCORPORATED, 910 Market Street, City of Wilmington, Delaware, U. S. A.	Thermal detonation energy initiatable blasting caps, and detonation system.
58.	140011	26-10-1973	DR. CARL HAHN GMBH, Kaiserwerther Strasse, 270, D-4000, Dusseldorf, F.R.G.	Applying the free and position of a withdrawal string to one end face of a roll of non-woven fabric as a plank for a tampon particularly for female hygiene.
59.	140018	04-05-1974	GIRLING LIMITED, Birmingham, England.	Fluid tight assemblies.
60.	140037	11-11-1974	LOLIFT (U. K.) LIMITED, Half Penny Lane, Knaresborough, Yorkshire, England.	Bulk material containers.
61.	140054	19-07-1974	BURROUGHS CORPORATION, Burroughs Place, Detroit, Michigan, USA.	Display panels.
62.	140060	30-09-1974	CATERPILLAR TRACTOR COMPANY, Peoria, Illinois, U.S.A.	Noise attenuating absorbing means for sprocket tooth and track.
63.	140061	10-10-1974	GEORGE FISCHER LIMITED, Schaffhausen, Switzerland.	A cast one-piece annular rim member for a vehicle wheel.
64.	140063	03-05-1973	GIRLING LIMITED, Birmingham, England.	Shoe drum brakes for vehicles.
65.	140084	21-05-1974	G. D. SOCIETA PER AZIONI, Via Pomponia 10, Bologna, Italy.	Apparatus for accumulating and supplying lengths of material in sheet form particularly cuttings or packet blanks and similar to cigarette packing machines of the hinged lid type.
66.	140115	31-12-1974	MARC YVESVERGNET, 1 Chemin Du Val Douse, La Paveigne, Toulon, Vas, France.	Improvements in or relating to pumps
67.	140128	17-10-1974	DUNLOP LIMITED, London, England.	Pneumatic tyres.
68.	140144	09-11-1973	GIRLING LIMITED, Birmingham, England.	Vehicle brakes.
69.	140148	09-11-1973	-do-	-do-
70.	140163	08-08-1973	THE SOLARTRON ELECTRONIC GROUP LIMITED, Victoria Road, Fernborough, Hampshire, England	Weapon training system particularly for simulating the use of a weapon against target
71.	140203	07-12-1973	GIRLING LIMITED, Birmingham, England.	Automatic adjusters for vehicle brakes
72.	140222	14-09-1973	ELKEM SPIGERVERKET A/S, Middlethunsgate 27, Elkemhuset, Oslo 3, Norway.	Arrangement for progressively advancing a cylindrical body in the direction of its axis.
73.	140258	09-10-1973	SUNKIST GROWERS INC; 14130, Riverside drive, Sherman Oaks, California, U. S. A.	Apparatus to organise a mass of objects into a travelling row.
74.	140303	15-12-1973	GIRLING LIMITED, England.	Vehicle wheel brake actuators.
75.	140362	16-01-1975	SCOVILL MANUFACTURING COMPANY, Waterbury, Country of New Haven, Connecticut, U. S. A.	Tyre valves.
76.	140409	11-09-1974	MAHLE GmbH, 26-46 Pragstrasse, Stuttgart, West Germany.	A piston and connecting rod arrangement for a reciprocating piston engine.

1	2	3	4	5
77.	140410	13-09-1974	ELITEX AZVODY TEXTILNIHO STRO-JIRANST VI Liberec, Czechoslovakia.	Body for winding yarn in textile machines.
78.	140420	22-10-1974	BRIDGESTONE TIRE COMPANY, LIMITED, No. 1-1, 1-Chome Kyobashi, Tokyo, Japan.	Pneumatic tyre for construction vehicles.
79.	140462	13-06-1973	1. EDWARD JOHSON TOWNS, Normand, Heights Road, Convem-station, New Jersey, U.S.A., and 2. ANTHONY THOMAS BRINDISI, 4 Charles Drive Fairfield, New Jersey, U.S.A.	Containers and safety closures therefor.
80.	140473	05-12-1974	KNORR BREMSE GMBH, 8 Munchen 40, Moosacher Strasse 80, FRG.	Flow dependent monitoring device for the main air conduit of air-brake systems for rail vehicle.
81.	140497	26-09-1975	M. H. DESAI, 17 Camac Street, Calcutta-17, W. B., India.	A crusher for crushing lumps of material.
82.	140519	22-08-1973	DUNLOP LIMITED, London, England.	Pneumatic tyres.
83.	140572	11-07-1974	BURROUGHS CORPORATION, Detroit, Michigan, U.S.A.	Chain printer utilizing a plurality of teeth for engaging driving means and apparatus for generating a unique binary code.
84.	140589	14-03-1974	AEROJET-GENERAL CORPORATION, 9100 East Flair Drive, El Mont, California, U. S. A.	Floating roof for liquid storage tanks.
85.	140604	23-07-1974	BURROUGHS CORPORATION, Detroit, Michigan, U. S. A.	Display panels.
86.	140606	30-01-1973	CATERPILLAR TRACTOR COMPANY, Peoria, Illinois, U.S.A.	Pilot control valve.
87.	140609	08-01-1974	G. D. SOCIETA PER AZIONI, Bologna, Italy.	Device for preventing products particularly packets of cigarettes or similar packets from rebounding when undergoing a change of direction on transferline linking two machines.
88.	140610	09-05-1974	R. A. LISTER AND COMPANY LIMITED, Long Street, Dursley, Gloucestershire, England.	Exhaust gas silencer.
89.	140612	26-08-1974	GIRLING LIMITED, Birmingham, England.	Disc brakes for vehicles.
90.	140614	07-07-1973	AMICON CORPORATION, 25 Hartwell Avenue, Lexington, Massachusetts, USA.	Disposable liquid concentrating device.
91.	140664	22-10-1974	PARKS CRAMER (GR. BRITAIN) LIMITED, Suthers Street, Oldham, Lancashire, England.	Spinning yarns on open end spinning machines and pneumatically removing fibre and trash-waste incident to spinning.
92.	140665	20-11-1974	BONALUM ETTORE Via hega Lombarde 5, Bergamo, Italy.	Method for stripping a web from a carding machine and apparatus therefor.
93.	140669	05-11-1973	DEERE & COMPANY, Moline, Illinois, U.S.A.	A crop harvester having an automatic height control system.
94.	140675	02-03-1974	DR. KARL THOMAE GmbH, D-7950, Biberach an der Riss, FRG.	Process and device for the preparation of signal close containers with an elongate flexible closure member and container so prepared.
95.	140696	14-03-1975	G. D. SOCIETA PER AZIONI, Bologno, Italy.	Apparatus with a rotatable head for supplying cigarettes to the infeed hoppers on high speed cigarette packing machines.
96.	140705	20-10-1973	DEERE & COMPANY, Moline, Illinois, U.S.A.	Variable speed belt drive for an agricultural machines.
97.	140709	30-05-1974	GIRLING LIMITED, Warwickshire, England.	Pressure Control valves.
98.	140715	01-03-1974	THE FIBERWOVEN CORPORATON, East Main Street, Elkin, North Carolina, U.S.A.	Method and machine for producing a needle fabric structure and fabric structure so produced.

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99.	140741	19-12-1973	G. D. SOCIETA PER AZIONI, Bologna, Italy.	Cigarette packing machines.
100.	140746	03-12-1974	BRITISH STEEL CORPORATION, 33 Grasvenor Place, London SW1, England.	Flanged ductile iron pipes and method of production thereof.
101.	140747	20-03-1975	1. JOHNSON & JOHNSON 501 George-street, New Brunswick, New Jersey, U.S.A., and 2. PUROLATOR INC; 970 New Brunswick Avenue, Ratiway, New Jersey, U.S.A.	A blood filter unit.
102.	140758	19-12-1974	GIRLING LIMITED, Birmingham, England.	Hydraulic actuators particularly for use in vehicle brake actuating systems.
103.	140777	11-03-1974	USS ENGINEERS & CONSULTANTS INC; 600 Grant Street, Pittsburgh, Pennsylvania, U. S. A.	Forming an interval taper in the walls of a sleeve like body.
104.	140781	11-11-1974	LOLIFT (U. K.) LIMITED, Halfpenny Lane, Kharesborough, Yorkshire, England.	Bulk material containers.
105.	140783	07-03-1975	FLENDER MACNEILL GEARS LIMITED, 2 Fairlie Place, Calcutta-1, West Bengal, India.	Flexible couplings.
106.	140813	13-12-1973	G. D. SOCIETA PER AZIONI, Bologna, Italy.	Discharge of products such as packets of cigarettes or the like from a wrapping packetting machine supplying products in intermittent operation.
107.	140859	01-07-1974	F. L. SMIDTH & COMPANY A/S, 77 Vigerslev Alle, DK-2500 Copenhagen-Valby, Denmark.	Improvements in rotary kiln plants for burning pulverous or granuler material.
108.	140865	22-10-1974	MASSEY FERGUSON SERVICE N. V., Antilles Abraham de Veerstraat 7A Currocas, Netherlands, Antilles.	Draft sensing apparatus for tractor.
109.	140866	19-12-1974	SUNSHINE LAMP INDUSTRIES LIMITED, 14-3-1 Nawroji Road, Vesaka-Patnam-53002, A. P. India.	Candle lamp holder.
110.	140884	16-02-1974	KELLEY COMPANY INC; 6720 North Tentonia Avenue, Milwaukee, Wisconsin, U.S.A.	Stack construction for a combustion apparatus.
111.	140886	24-09-1974	FLUIDRIVE ENGINEERING COMPANY LIMITED, Fluid Works, Worton Road, Isleworth, Middlesex, England.	Fluid couplings and motor driven installations incorporating the same.
112.	140898	28-12-1974	WHARTON SHIPPING COMPANY, Quijano Associates, Avenidu J. Arosemenoy Calle 32 Edificio, Valerino, Panama.	Vessel for flotation loading and unloading and partial buoyancy support of barges and other floating containers.
113.	140914	22-03-1974	F. L. SMIDTH & COMPANY A/S, Copenhagen-Valby, Denmark.	Improvement in air swept tube mills and method of grinding material in the same.
114.	140915	08-07-1974	ELITEX ZAVODY TEXTILNIHO STROJIRENSTVI, 22 Boxeny Nemcone, Liberce, Czechoslovakia.	Device for forming a yarn rserve upon simultaneous formation of a yarn package on a winding body in textile machines.
115.	140938	21-10-1974	DR. AXEL HELM, D-8201, Neuteconem/9nn Henleergstrasse 3, FRG.	Railway transport system.
116.	140955	15-01-1974	A. EHRENREICH & CIE, Hansallee 190, D 4000 Dusseldorf-Oberkassel, West Germany.	A cup-shaped ball joint housing.
117.	140971	15-01-1974	SOCIETE DETUDIES DE MACHINES THERMIQUES 2 Quai de Seine, Saint Denis, France.	Cooled exhaust valve for an internal combustion engine.
118.	140986	14-12-1973	G. D. SOCIETA PER AZIONI, Bologna, Italy.	Device for feeding containers filled with cigarettes to a supply hopper charging mechanism of a cigarette Packetting machine.
119.	140987	14-12-1973	-Do-	Device for transferring batches of cigarettes from a formation line to a packing line for them to be packeted.
120.	140991	21-05-1974	-Do-	Device for checking the proper sealing down of the base of packets in particular cigarette packets.

RENEWAL FEES PAID

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CESSATION OF PATENTS

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RESTORATION PROCEEDINGS

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the 2nd July 1981 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(1)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 141086 granted to Graphite India Limited, for an invention relating to "a process for making carbon embedded fireclay and other allied refractory materials". The patent ceased on the 5th June, 1979 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 26th July, 1980.

(2)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of

Patent No. 142325 granted to Director General, Indian Council of Medical Research for an invention relating to "a method for the purification of HCG of low or relatively low purity." the patent ceased on the 3rd December, 1979 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 20th September, 1980.

(3)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 144455 granted to Cummins Engine Co. Inc., for an invention relating to "piston for an internal combustion engine." The patent ceased on the 22nd May, 1980 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 18th March, 1981.

(4)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 146072 granted to Instruments and Components for an invention relating to "an armature assembly". The patent ceased on the 17th January, 1980 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 31st January, 1980.

(5)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 146073 granted to Instruments and Components for an invention relating to "a coil assembly". The patent ceased on the 17th January, 1980 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 31st January, 1980.

(6)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 146705 granted to Yull Brown, for an invention relating to "apparatus for generating a supply of hydrogen gas and oxygen gas". The patent ceased on the 30th November, 1980 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 28th March, 1981.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 149553. Kunjuveetil Sankaran Pandola Raman Nair, Sankethika Vidya Mandiram, Pulimood, G.P.O. Jn., Trivandrum-695001, Kerala State, Indian. "Lekhom". May 20, 1980.

Class 1. No. 149604. Associated Enterprises of 36, Dr. Sudhir Basu Road, Calcutta-700023, West Bengal, India, a proprietary firm. "Cooking stove and kerosin wick stove". June 10, 1980.

Class 1. No. 149611. M/s. Bakshi International Corporation of C-15, Industrial Estate, 11 Godowns, Jaipur-6 (Rajasthan). "Hydraulic tyre dismounting and mounting machine for dumper and earth moving tyres". June 12, 1980.

Class 1. No. 149667. Standard Sports & Steel Industries of No. 4, Bhairoba Road, Wanori, Poona, Pin : 411004, Maharashtra, India, an Indian citizen. "Multi-station gymnasium equipment". July 4, 1980.

Class 1. No. 149679. Siddheswar Banerjee, Indian, 23A, Mahadeb Banerjee Road, Calcutta-700037, West Bengal, India. "Key for steering locking device". July 8, 1980.

Class 1. No. 149754. Peico Electronics and Electricals Limited of Shivsagar Estate, Block "A", Dr. Annie

Besant Road, Worli, Bombay-18 (WB), Maharashtra State, India. "Table Lamp". July 29, 1980.

Class 1. No. 149793. Usha Automobile & Engineering Limited of 2, Ramgopal Ghose Road, Calcutta-700002, West Bengal. "Locking handles of automobiles". August 12, 1980.

Class 1. No. 149851. Alfred Racek of Seitenberggasse of 54, 1160 Wien, Austria of Austrian nationality. "A Gas Lighter". August 26, 1980.

Class 1. No. 149903. Moonlight Industries of 3928-Gali Mandirwali, Pahari Dhiraj, Delhi-110006 an Indian Partnership Concern, "Hook". September 12, 1980.

Class 1. No. 149905. Poddar Prayogshala, Fatehpur Shekhawati (Raj.), an Indian Partnership Firm. "Container". September 12, 1980.

Class 1. No. 149907. Sukhdayal Singh & Sons, an Indian Proprietary Concern of 7978/6, Arakashan Road, Multani Dhandra, Pahar Ganj, New Delhi-110055. "Lamp". September 15, 1980.

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Anand Automobiles.—3/Del/81.

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Bayer Aktiengesellschaft.—29/Del/81.

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